

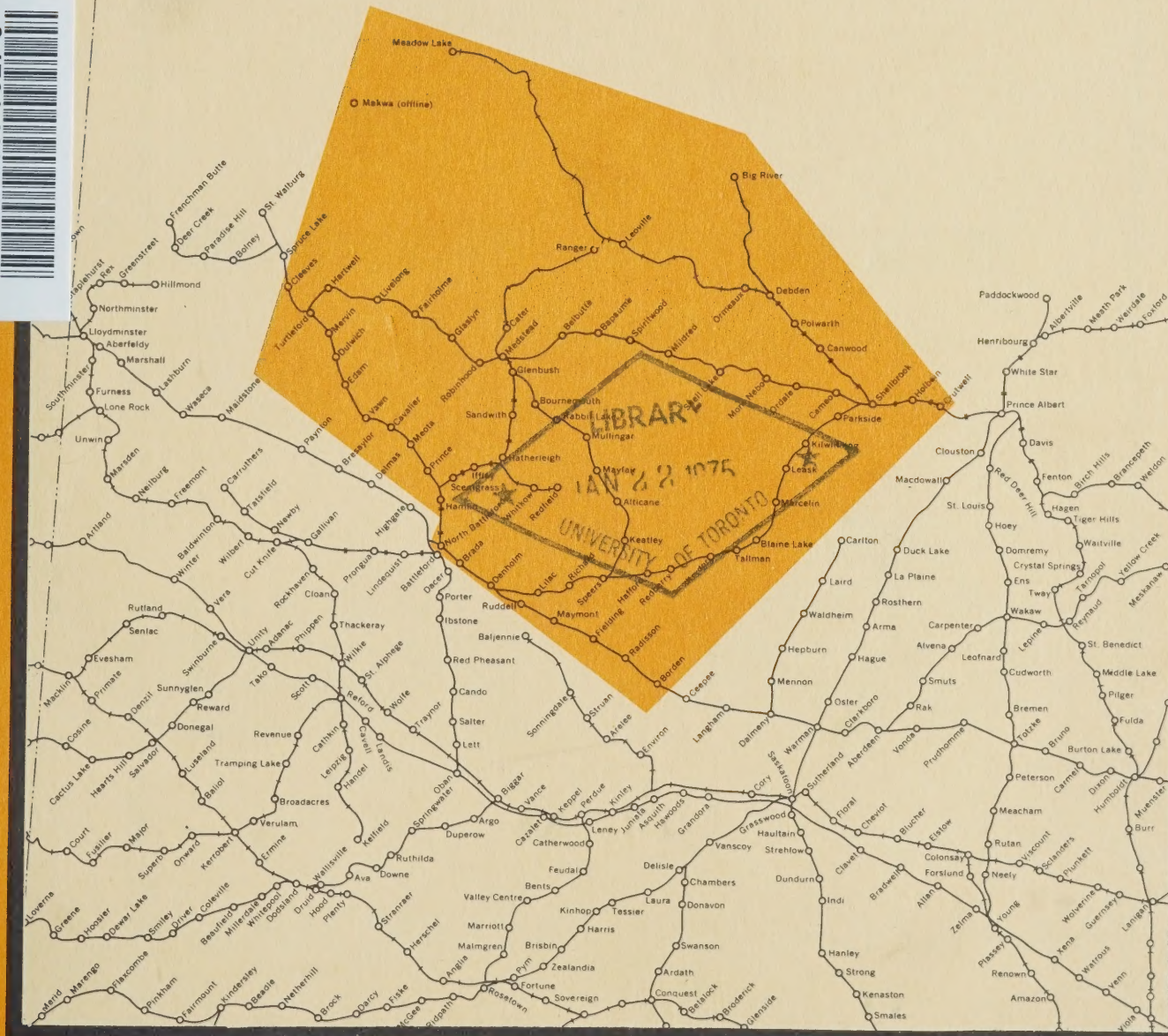
PRAIRIE REGIONAL STUDIES IN ECONOMIC GEOGRAPHY NO. 14

THE SHELLBROOK-TURTLEFORD REGION OF SASKATCHEWAN

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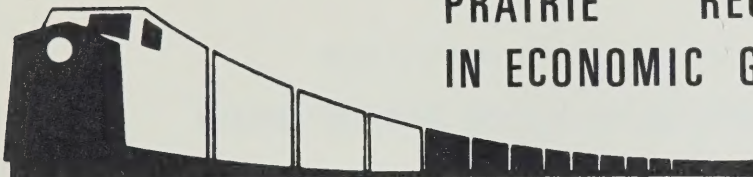
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PRAIRIE REGIONAL STUDIES
IN ECONOMIC GEOGRAPHY No. 14



THE SHELLBROOK - TURTLEFORD REGION
OF SASKATCHEWAN

H.R. FAST, D.A. NEIL
ECONOMICS BRANCH
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2. The Boissevain Region of Manitoba by J.W. Channon, D. Zasada and R.T. Miller, Economics Branch, Canada Department of Agriculture.
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PREFACE

Bill C-120 was given first reading in the House of Commons on September 14, 1964. This was the first attempt to implement the recommendations of the MacPherson Royal Commission on Transportation. It never became law as the twenty-sixth parliament was dissolved before the bill passed through the Commons. That bill would have established the Branch Line Rationalization Authority, responsible to the Minister of Agriculture.

Bill C-231, which succeeded Bill C-120, was given first reading on August 29, 1966, and subsequently became what is now in the statutes as the National Transportation Act, R.S.C. 1970 Ch. N-17. This bill established the Canadian Transport Commission, comprising several committees, including the Railway Transport Committee. This latter committee was allocated the responsibilities which would have been given to the Branch Line Rationalization Authority. The Railway Transport Committee is responsible through the Canadian Transport Commission to the Minister of Transport. Accordingly the Minister of Agriculture now has no direct authority in the field of branch line abandonment. However, because of the responsibilities of the Canadian Grain Commission in regulating the grain warehouse industry, the Minister of Agriculture has a direct interest in the impact of branch line rationalization on this railway-related industry. He also is concerned, of course, with the effects of such changes on the welfare of western grain producers.

Prairie Regional Studies in Economic Geography had their origin in work carried out by Mr. J.W. Channon for the Minister of Agriculture, beginning in February 1964. Later that year Mr. A.W. Burges began a study of the prairie branch line network for the Geographical Branch, Department of Mines and Technical Surveys. It seemed logical and economical to merge the two. This was done and the Riverhurst report became No. 1 in the series of Prairie Regional Studies. Following the dissolution of the Geographical Branch in 1967, the project was wholly transferred to the Canada Department of Agriculture and work continued under the direction of Mr. Channon. The present report on the Shellbrook-Turtleford region of Saskatchewan is No. 14 in this series.

The area designated as the Shellbrook-Turtleford region of Saskatchewan comprises 69 grain delivery points. These are first listed in Table 1.1 and again in subsequent tables as required. The factors given consideration when delineating a study region for purposes of this series include the following: (1) that the region must be a manageable size; (2) that the region must encompass one or more problem areas with regard to grain marketing; (3) that an attempt is made to draw a line around the region such that communities outside the region are not affected by the rationalization hypothesized in the study in terms of grain delivery patterns, i.e., if possible no community is to be in more than one study region; and (4) that the region and the problem areas are to be based

on the railway network and country elevators existing at the time of delineation.

As noted in the previous reports, the emphasis is on grain farms and the communities and facilities serving these farms. The tabular data and their accompanying texts, figures and maps describe the socio-economic activity of the region. It is hoped that this information will enable the reader to gain an appreciation of the relative importance of the farms and communities in the Shellbrook-Turtleford region and, having done this, be in a better position to assess the impact of proposed programs and contemplated changes in the infrastructure of the region.

It is readily admitted that the data contained in this report do not constitute an exhaustive coverage of all the parameters. The material being presented is intended to help those individuals and firms affected by changes to understand the rationale of any changes in grain collection and distribution, some of which have been under way for some years. Undoubtedly this will intensify over the next few years as inflationary pressures work on the cost structures of the grain production industry, the elevator industry and the railways.

This report is organized into five major parts, the first being a description of the communities themselves. The following community attributes are described: available services, population, school enrolment, postal activity, property tax assessment and transportation services. The second part describes some grain production characteristics of the region including soils, meteorological data, land values, land use, crop yields, protein content, and farm sizes and tenure. Descriptive material contained in the third part focuses on the grain marketing and handling system as it relates to the delivery points. Among other things, this includes data on the number and capacity of grain elevators, number of permit holders, grain elevator receipts, quota base, grain prices and farm to elevator grain hauling activity.

Part IV attempts to show what changes might be expected if some of the delivery points closed. It is a hypothetical exercise in which the hinterlands of certain delivery points assumed closed are diverted and added to neighboring delivery point hinterlands. For delivery points affected by this diversion, estimates are made of the probable changes that could occur in acreages, bushelages, throughput ratios, hauling distances and number of permit holders.

Finally, the last part briefly describes some of the activities of the three main regulatory bodies governing the grain industry in Canada. These are the Canadian Grain Commission, the Canadian Wheat Board and the Canadian Transport Commission. For added perspective a chronology of grain-oriented legislation and events is appended.

TABLE OF CONTENTS

<i>PART</i>		<i>PAGE</i>
I	COMMUNITY CHARACTERISTICS	1
	Classification of Communities	1
	Retail Trade	8
	Population of Communities	10
	Farm Population	10
	Population by Sex and Age Groups	14
	School Enrolment	22
	Post Office Revenue	25
	Property Tax Assessment	29
	Carload Rail Traffic	44
	Railway Freight Density	60
	Highway Transportation Services	62
II	GRAIN PRODUCTION CHARACTERISTICS	65
	Physical Features and Soil Capability for Agriculture	65
	Sample Aerial Photos	66
	Temperature Norms and Extremes	71
	Precipitation	71
	Hail Insurance	74
	Sales of Farm Land	78
	Land Use	79
	Crop Yields	95
	Protein Content of Wheat	98

PART		PAGE
	Prairie Farm Assistance Act Payments	101
	Farm Size and Land Tenure	103
III	GRAIN MARKETING AND HANDLING CHARACTERISTICS	113
	Producers' Choice of Alternate Delivery Points	113
	Delivery Permit Books Issued	117
	Canadian Wheat Board Initial Payments	120
	Country Elevator Facilities	123
	Receipts of Grain at Country Elevators	129
	Throughput Ratios	132
	Acres for Delivery Quota Purposes	135
	Acres Devoted to Canadian Wheat Board Grains	150
	Quotas Required to Fill Elevator Storage Capacity	156
	Number of Boxcars Per Shunt That Can Be Loaded	159
	Block Loading System for Grain	164
	Farm Trucks	167
	Farm to Elevator Hauling Distances	169
IV	A SUGGESTED ALTERNATIVE GRAIN COLLECTION SYSTEM	173
	Probable Diversion of Acreages and Bushels Conditional on Closing Certain Delivery Points	175
	Size of Hinterlands Before and After Diversion	182
	Throughput Ratios Before and After Diversion	183
	Farm to Elevator Hauling Distances Before and After Diversion	186

<i>PART</i>		<i>PAGE</i>
	Number of Permit Holders Before and After Diversion . .	189
V	REGULATION OF THE GRAIN INDUSTRY	197
	Canada Grain Act	197
	Canadian Wheat Board Act	198
	Temporary Wheat Reserves Act	201
	National Transportation Act	201
	APPENDIX	
	Estimated Numbers of Quarter Sections and Permit Holders by Distance from Delivery Points Before and After Diversion	206
	Communities Other Than Grain Delivery Points in the Shellbrook-Turtleford Region	219
	Chronology of Government Legislation, Court Rulings, Board Orders, Regulations, etc., Having an Impact on Production and Marketing of Grain in Western Canada	222

LIST OF TABLES

<i>TABLE</i>	<i>PAGE</i>
1.1 Classification of Communities in the Study Area	3
1.2A Services Present in Communities Too Small to Classify, 1972	4
1.2B Services Present in Communities by Rank, 1972	5
1.3 Retail Trade of Incorporated Communities in the Study Area, 1961 and 1966	9
1.4 Population of Communities in the Study Area, Census Years 1941 to 1971	11
1.5 Farm Population in the Study Area by Rural Municipality, Census Years 1941 to 1966	13
1.6 Population by Specified Age Groups and Sex for Incorporated Communities and Rural Municipalities in the Study Area, 1966	15
1.7 Proportion of Population Falling Within Three Specified Age Groups, 1966	21
1.8 School Enrolment in the Study Area by Grades, School Year 1971-72	23
1.9 Post Office Revenue in the Study Area, Fiscal Years 1962-63 to 1970-71	26
1.10 Property Tax Assessment for Communities in the Study Area, 1972	30
1.11 Revenue Carload Rail Traffic by Delivery Point in the Study Area, 1966 to 1971	45
1.12 Truck Services by Community, 1971	63
2.1 Temperature Norms and Extremes for Specified Meteorological Stations	72
2.2 Monthly and Annual Average Precipitation for Specified Meteorological Stations	73
2.3 Saskatchewan Municipal Hail Insurance: Number of Claims Filed, Acres Insured and Acres on Which Damage Claimed in the Study Area, 1962 to 1971	75

TABLE	PAGE
2.4 Representative Land Values by Sales Price Per Acre, 1963 to 1971	78
2.5 Land Use of Farm Acreage by Delivery Point, 1962-63 . . .	80
2.6 Land Use of Farm Acreage by Delivery Point, 1969-70 . . .	85
2.7 Land Use of Farm Acreage by Delivery Point, 1970-71 . . .	90
2.8 Ten-Year Average Yields of Spring Wheat, Durum, Oats, Barley and Flaxseed by Delivery Point, 1962-71	96
2.9 Protein Content of Hard Red Spring Wheat, 1962 to 1971 . .	99
2.10 Distribution of Farm Sizes in the Study Area, Crop Years 1962-63 and 1969-70	104
2.11 Average Acreage of Farms in the Study Area, 1962-63 and 1969-70	105
2.12 Land Tenure in the Study Area, 1962-63 and 1969-70	111
3.1 Producers' Choice of Alternate Delivery Points, 1970-71 . .	114
3.2 Delivery Permit Books Issued by Delivery Point, 1962-63 to 1971-72	118
3.3 Canadian Wheat Board Net Initial Payments to Producers by Freight Rates, Basis Thunder Bay, Ontario	121
3.4 Number and Capacity of Licensed Country Elevators by Delivery Point, 1962-63 and 1969-70	124
3.5 Country Elevators: Ownership, Age and Capacity by Delivery Point, 1972	126
3.6 Receipts of Grain at Licensed Country Elevators by Delivery Point, 1962-63 to 1970-71 and Ten-Year Average	130
3.7 Throughput Ratios by Delivery Point, 1962-63, 1969-70 and Ten-Year Average 1960-61 to 1969-70	133
3.8 Canadian Wheat Board Specified Acreage for Delivery Quota Purposes by Delivery Point, 1962-63 to 1969-70 . .	136
3.9 Seeded and Quota Acres by Delivery Point, 1971-72	138

TABLE

PAGE

3.10A	Number and Percent of Specified Acres Devoted to Canadian Wheat Board Grains, 1962-63 to 1969-70	151
3.10B	Number and Percent of Quota Acres Devoted to Canadian Wheat Board Grains, 1970-71 and 1971-72	153
3.11	Elevator Capacity Versus Quota Acres and Number of Boxcars Required to Move One Bushel Per Quota Acre By Delivery Point	157
3.12	Maximum Number of Boxcars Per Shunt That Can be Loaded By Delivery Point and Elevator Company, 1972-73	160
3.13	Block Loading System for Grain in the Study Area, 1971-72	165
3.14	Estimated Number of Farm Trucks by Size and Model Year in the Study Area, 1970	168
3.15	Farm to Elevator Hauling Distances by Delivery Point, 1969-70	171
4.1	Status of Delivery Points After Diversion, 1969-70	174
4.2	Diversions (From-To) of Acreages and Bushels Conditional on the Closing of Specified Delivery Points, Basis 1969-70	176
4.3	Diversions (To-From) of Acreages and Bushels Conditional on the Closing of Specified Delivery Points, Basis 1969-70	179
4.4	Size of Hinterlands Before and After Diversion, Basis 1969-70	182
4.5	Throughput Ratios by Delivery Point Before and After Diversion, Basis 1969-70 and Previous Ten-Year Average	184
4.6	Farm to Elevator Hauling Distances by Delivery Point Before and After Diversion, Basis 1969-70	187
4.7	Number of Permit Holders by Delivery Point Before and After Diversion, Basis 1969-70	190

APPENDIX

<i>TABLE</i>		<i>PAGE</i>
A.1	Estimated Number of Quarter Sections and Distance From Delivery Point Before and After Diversion, Shellbrook- Turtleford Region, 1969-70	207
A.2	Estimated Number of Permit Holders and Distance From Delivery Point Before and After Diversion, Shellbrook- Turtleford Region, 1969-70	213
A.3	Communities Other Than Grain Delivery Points in the Shellbrook-Turtleford Region	220
A.4	Alphabetical List of Communities and Rank Number in the Shellbrook-Turtleford Region	221

LIST OF FIGURES

<i>FIGURE</i>	<i>PAGE</i>
1.1 Classification of Communities, Shellbrook-Turtleford Region of Saskatchewan, 1972	7
1.2 Railway Freight Density, Northern Saskatchewan, 1968 . . .	61
2.1 Aerial View of Hafford Area	67
2.2 Aerial View of Rabbit Lake Area	68
2.3 Aerial View of Hatherleigh-Iffley Area	69
2.4 Aerial View of Turtleford Area	70
2.5 Prairie Farm Assistance Act Payments, 1939-1970	102
3.1 Export Grain Freight Rates Per 100 lbs. From Northern Saskatchewan to Thunder Bay, Ontario	122
4.1 Grain Delivery Point Hinterlands, Shellbrook-Turtleford Region of Saskatchewan, 1969-70	193
4.2 Probable Grain Delivery Point Hinterlands Assuming Specified Delivery Points Closed, Shellbrook-Turtleford Region of Saskatchewan, Basis 1969-70	195

PART I

COMMUNITY CHARACTERISTICS

Classification of Communities

For purposes of this study, the method of community classification is based on a modification of the system used by the Saskatchewan Royal Commission on Agriculture and Rural Life in their Report No. 12 entitled "Service Centers". The criterion used for classifying and ranking communities in the present study was the number of service activities present. Communities were classified by number of services into five categories: "too small to classify", 0-2 services; hamlets, 3-10 services; villages, 11-35 services; towns, 36-75 services; and greater towns, 76 or more services. If two or more communities had an equal number of services, they were then ranked by population. North Battleford was placed in a sixth category, cities, by virtue of its large number of services and its large population.

This method of ranking is not perfect. For instance, it ignores dollar volume of retail sales in each community and it does not take into account the quality of service activities present. It appears, however, to be more meaningful than simply to rank by population.

Table 1.1 lists the communities in ascending order of rank. There were 17 communities "too small to classify", 20 hamlets, 17 villages, 11 towns, 3 greater towns and 1 city. The number of services in each community, as shown in Tables 1.2A and 1.2B, served as the basis for the service classification and the initial ranking within each class. Where information was available, 1971 population figures were used to rank by population (Table 1.4).

The type and number of services shown for each delivery point other than grain elevators may not be completely accurate. This information was gleaned from a visual field survey and it was supplemented by telephone directories and by other data on grain elevators, post offices, schools, railway stations, bus depots, etc. It is possible that some services were overlooked such as a door-to-door salesman or a beauty parlour that was located in the basement of a private home. Sometimes it was difficult to know whether a particular business or meeting hall was being used or whether it was abandoned.

As a working definition of "service" with respect to grain elevators, the following criterion was used. The number of grain elevator companies actively receiving grain from producers on either a part or a full-time basis during the 1971-72 crop year were counted. This meant that the

mere presence of a licensed elevator facility was not counted as a service if it was only used for storage. Furthermore, in those instances where an elevator company had more than one elevator at a particular delivery point, it was still considered to be just one service.

Figure 1.1 shows the classification of communities and their geographic location in the Shellbrook-Turtleford study region.

Tables 1.2A and 1.2B clearly show the number and kind of services available in the various communities. Of the 17 delivery points "too small to classify", 6 had no services, 3 had 1 service and 8 had 2 services. Only 6 delivery points had grain elevators that were open. Five delivery points had postal boxes, 5 had a small general store or a grocery store, 2 had a fertilizer dealership associated with the grain elevator and 1 delivery point, Redberry, had a bulk fuel dealer.

The principal services in hamlets were the grain elevator with its associated fertilizer dealership, the small general store, the meeting hall and the postal service. Six of the hamlets had rinks, 3 had schools and 2 had bulk fuel dealerships.

Villages provided similar services with the main additions being a garage or service station, a farm equipment dealer, a hotel, a bank and a railway station. All villages had postal services and all except 4 had schools. However, such services as a clothing store, an electrician and a doctor were absent.

Virtually the complete range of services was available in towns and greater towns. While only one establishment of the same kind was located in a village, in a town there were often two or more similar establishments. Some degree of specialization becomes evident. For instance, one may find a bakery as well as a grocery store and an appliance sales and service store as well as a hardware store. There may also be other specialized services such as dentists, drive-in eating establishments, trailer courts and ambulance services that are not itemized in Table 1.2B.

TABLE 1.1 CLASSIFICATION OF COMMUNITIES IN THE STUDY AREA^a

Too Small to Classify 0-2 Services	Hamlets 3-10 Services	Villages 11-35 Services	Greater Towns		Cities
			36-75 Services	76 or more Services	
1 Hartwell	18 Hatherleigh	38 Whitkow	55 Debden	66 Spiritwood	69 North
2 Cameo	19 Redfield	39 Mullingar	56 Leoville	67 Shellbrook	Battleford
3 Bournemouth	20 Hamlin	40 Holbein	57 Borden	68 Meadow Lake	
4 Dulwich	21 Crutwell	41 Parkside	58 Edam		
5 Cleeves	22 Cavalier	42 Makwa	59 Radisson		
6 Ormeaux	23 Keatley	43 Livelong	60 Canwood		
7 Ordale	24 Bapaume	44 Vawn	61 Glaslyn		
8 Tallman	25 Robinhood	45 Krydor	62 Hafford		
9 Kilwinning	26 Fairholme	46 Medstead	63 Big River		
10 Redberry	27 Sandwith	47 Speers	64 Turtleford		
11 Scentgrass	28 Mildred	48 Mayfair	65 Leask		
12 Polwarth	29 Belbutte	49 Maymont			
13 Cater	30 Prince	50 Mervin			
14 Brada	31 Richard	51 Meota			
15 Lilac	32 Denholm	52 Shell Lake			
16 Iffley	33 Ruddell	53 Rabbit Lake			
17 Ranger	34 Alticane	54 Marcelin			
	35 Glenbush				
	36 Fielding				
	37 Mont Nebo				

^aFor purposes of cross-reference, see "Alphabetical List of Communities and Rank Number" in the Appendix.

TABLE 1.2A SERVICES PRESENT IN COMMUNITIES TOO SMALL TO CLASSIFY, 1972

Delivery Point	Number of Services	Active Grain Elevator Company as of Aug. 1972 (Date of Closure)	Other Services
<i>Too Small to Classify (0-2)</i>			
1 Hartwell	Nil	(Storage Only 1959-60 to 1963-64 Closed August, 1964)	
2 Cameo	Nil	(Storage Only 1958-59 to 1965-66 Closed August, 1966)	
3 Bournemouth	Nil	(Emptied and Closed During 1970-71 Crop Year)	
4 Dulwich	Nil	(Closed August, 1966)	
5 Cleeves	Nil	(Closed August, 1967)	
6 Ormeaux	Nil	(Closed August, 1967)	
7 Ordale	1	(Closed August, 1970)	Group postal boxes
8 Tallman	1	Sask. Wheat Pool	
9 Kilwinning	1	(Storage Only 1957-58 to 1964-65 Closed August, 1965)	General store
10 Redberry	2	(Storage Only 1968-69 to 1970-71 Closed August, 1971)	Grocery store, Bulk fuel dealer*
11 Scentgrass	2	Sask. Wheat Pool	Fertilizer dealer
12 Polwarth	2	National Grain Ltd.	Grocery store
13 Cater	2	(Storage only 1968-69 to 1970-71 Closed August, 1971)	Grocery store, Group postal boxes
14 Brada	2	Sask. Wheat Pool	Fertilizer dealer
15 Lilac	2	Sask. Wheat Pool	Group postal boxes
16 Iffley	2	Sask. Wheat Pool	Group postal boxes
17 Ranger	2	(Emptied and Closed During 1970-71 Crop Year)	General store, Group postal boxes

*Dealer has gas pumps.

TABLE 1.2B SERVICES PRESENT IN COMMUNITIES BY RANK, 1972

[†]Store with gas pumps.

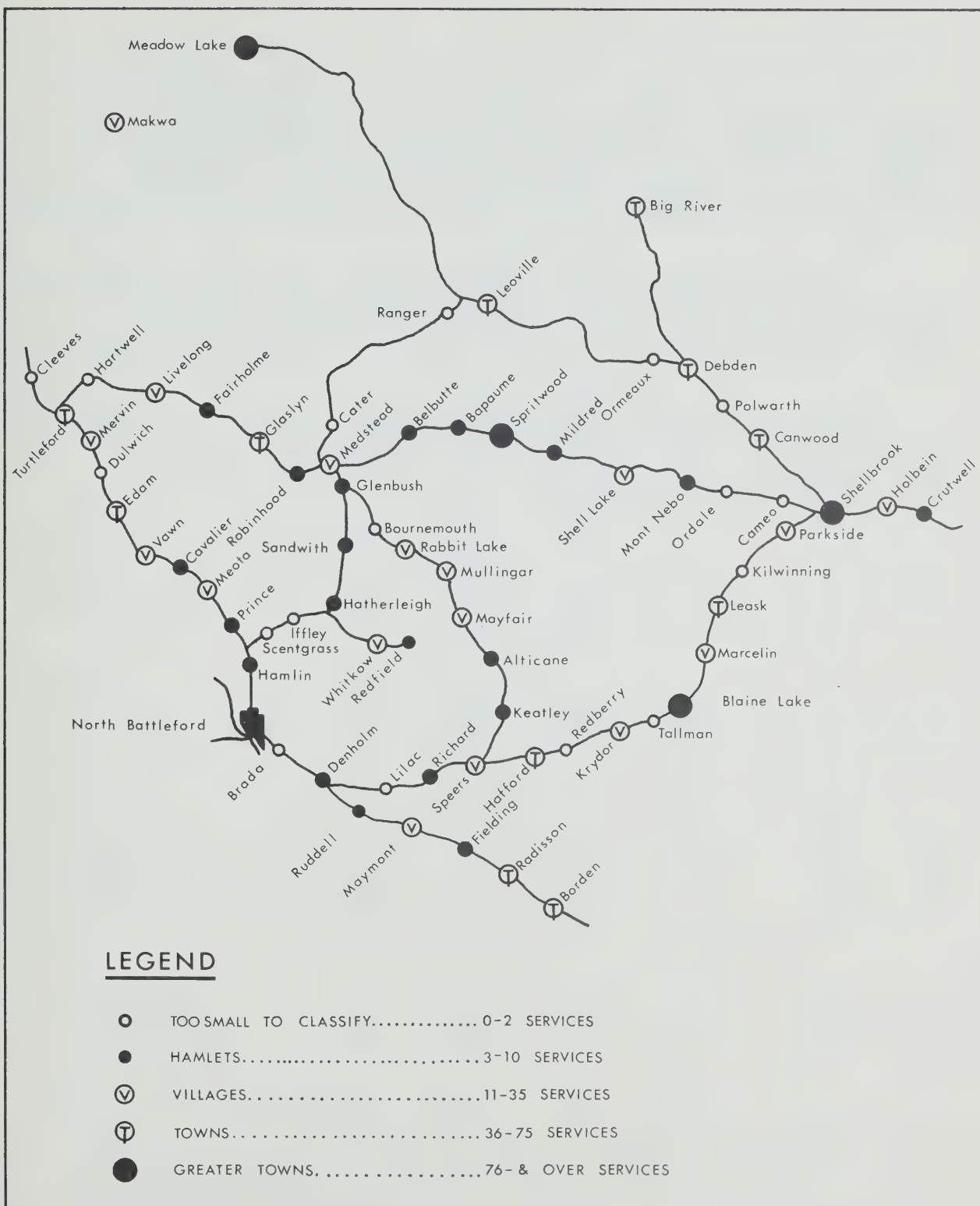
¹Storage only 1970-71, closed Aug., 1971.

Storage only 1970-71, closed Aug., 1971.
Storage only 1968-69 to 1970-71, closed Aug., 1971.

Storage only 1968-69 to 1970-71, closed Aug., 1971.
Storage only 1969-70 and 1970-71, closed Aug., 1971.

Year	Storage only	1969-70	and 1970-71	closed
1971	1070	71	1	22
1972	1071	71	1	22

¹⁰Storage only 1970-71, closed Aug., 1971.



**CLASSIFICATION OF COMMUNITIES
THE SHELLBROOK - TURTLEFORD
REGION OF SASKATCHEWAN, 1972**

Figure 1.1

Retail Trade

Only a limited amount of information on retail trade in the study area was available; therefore it could not be used in the ranking process. Table 1.3 shows the retail sales volume of each incorporated community in the census years of 1961 and 1966. The number of outlets reporting in a community often does not account for all retail outlets actually operating there.

In general, retail sales volume increased with the ascending order of community rank; however, there was considerable variation. It must also be remembered that the ranking was established on a 1972 basis, while the data on retail sales applies to periods six and eleven years earlier.

Between 1961 and 1966 the average volume of sales per retail outlet increased in all communities listed in the table except Vawn, Marcelin, Leoville, Borden, Glaslyn and Leask. No information was available for other delivery points in the area.

TABLE 1.3 RETAIL TRADE OF INCORPORATED COMMUNITIES IN THE STUDY AREA,
1961 AND 1966

Delivery Point	1961			1966		
	No. of Outlets	Retail Sales		No. of Outlets	Retail Sales	
		Total	Per Outlet		Total	Per Outlet
		-\$000's -			- \$000's -	
<i>Hamlets</i>						
31 Richard	3	63	21	1	n.a.	-
36 Fielding	3	68	23	2	n.a.	-
<i>Villages</i>						
41 Parkside	4	114	29	4	227	57
44 Vawn	3	133	44	3	126	42
45 Krydor	9	176	20	7	181	26
46 Medstead	3	88	29	5	288	58
47 Speers	3	136	45	2	n.a.	-
49 Maymont	2	n.a.	-	5	229	46
50 Mervin	6	129	22	5	130	26
51 Meota	4	211	53	4	513	128
52 Shell Lake	7	284	41	6	346	58
53 Rabbit Lake	7	165	24	5	248	50
54 Marcelin	4	407	102	7	597	85
<i>Towns</i>						
55 Debden	8	865	108	6	1,776	296
56 Leoville	8	321	40	6	226	38
57 Borden	5	224	45	7	279	40
58 Edam	4	221	55	3	232	77
59 Radisson	14	487	35	12	533	44
61 Glaslyn	6	1,130	188	7	882	126
62 Hafford	13	675	52	11	634	58
63 Big River	9	597	66	10	999	100
64 Turtleford	11	805	73	12	904	75
65 Leask	11	664	66	11	633	58
<i>Greater Towns</i>						
66 Spiritwood	15	1,011	67	19	2,292	121
67 Shellbrook	14	1,225	88	18	1,908	106
68 Meadow Lake	49	4,081	83	49	6,785	139
<i>Cities</i>						
69 North Battleford	123	18,243	148	114	27,840	244

n.a. - Not available.

Source: Census of Canada, Statistics Canada, Ottawa.

Population of Communities

Between 1956 and 1971, the directions and percentages of change for populations in the different classification groups were as follows: "too small to classify", -74.5 percent; hamlets, -44.1 percent; villages, +4.7 percent; towns, +3.8 percent; and greater towns +33.8 percent. The increase from 20,901 to 25,401 in the number of people residing in communities was largely due to a 39.5 percent increase in the population of North Battleford. In 1956 this city accounted for 43.7 percent of all people in the communities of the study area; but, by 1971, 49.0 percent of the total population in the different classification groups lived there.

Farm Population

The study area encompasses about 17 rural municipalities and 3 local improvement districts. These are listed in Table 1.5 along with figures showing the number of persons living on census farms.¹ Between 1941 and 1966, the population on farms fell by 45.4 percent in the province and by 33.9 percent in the study area.

The combined effects of a substantial drop in farm population and an increase in total population resulted in the proportion of persons on farms in Saskatchewan declining from 57.4 percent in 1941 to 29.4 percent in 1966, a period of 25 years. The proportion of persons on farms in the study area in 1966 was 43.1 percent.² This data illustrates the familiar movement of people from rural to urban residence.

¹In 1966 the term "census farm" was defined as an agricultural holding of one acre or more with sales of agricultural products amounting to \$50 or over during the 12-month period prior to the census. See Agriculture Census of Canada, 1966.

²Based on a total population of 48,136 in the study area, as shown in Table 1.6.

TABLE 1.4 POPULATION OF COMMUNITIES IN STUDY AREA, CENSUS YEARS 1941 TO 1971

Delivery Point	1941	1951	1956	1961	1966	1971
<i>Too Small to Classify</i>						
1 Hartwell	...	2				
2 Cameo	4	...				
3 Bournemouth	3	9	10	4	3	...
4 Dulwich	12	8	9	...		
5 Cleeves	49	29	17	25	5	3
6 Ormeaux	12	13	10	12	5	...
7 Ordale	16	...	17	...	6	...
8 Tallman	9	14	9	12	9	6
9 Kilwinning	27	30	39	24	19	9
10 Redberry	10	10	9	...	4	...
11 Scentgrass	17	14	15	...		
12 Polwarth	17	...	6	...	2	...
13 Cater	...	11	6	2	...	
14 Brada	...	12	13	10	...	
15 Lilac	14	7	8	9	5	6
16 Iffley	15	15	15	11	10	9
17 Ranger	15	12	13	12	12	17
<i>Hamlets</i>						
18 Hatherleigh	24	23	25	12	5	6
19 Redfield	27	26	32	21	10	6
20 Hamlin	13	15	16	5	16	7
21 Crutwell	15	53	89	115	116	71
22 Cavalier	20	12	11	14	9	...
23 Keatley	15	14	17	11	7	6
24 Bapaume	33	34	19	23	23	28
25 Robinhood	52	32	34	...	23	18
26 Fairholme	71	44	59	58	50	51
27 Sandwith	45	27	35	44	17	5
28 Mildred	99	53	58	44	68	54
29 Belbutte	27	37	68	47	41	38
30 Prince	64	58	69	66	43	29
31 Richard	137	96	101	91	53	39
32 Denholm	95	94	104	72	79	71
33 Ruddell	62	53	61	100	39	25
34 Alticane	67	57	67	56	67	24
35 Glenbush	52	47	58	56	55	30
36 Fielding	70	83	78	82	52	38
37 Mont Nebo	...	84	70	34	65	53
<i>Villages</i>						
38 Whitkow	57	45	56	49	36	23
39 Mullingar	40	41	29	42	38	33
40 Holbein	36	58	36	...	53	40
41 Parkside	159	134	125	149	128	112
42 Makwa	66	175	n.a.	n.a.	156 ^a	126
43 Livelong	78	138	108	140	165	126
44 Vawn	59	64	74	102	137	116
45 Krydor	134	130	169	184	157	136
46 Medstead	188	188	202	199	179	179
47 Speers	145	127	155	175	163	117
48 Mayfair	62	83	74	95	114	134

See footnotes at end of table

(continued)

TABLE 1.4 POPULATION OF COMMUNITIES IN STUDY AREA, CENSUS YEARS 1941 TO 1971
(concluded)

Delivery Point	1941	1951	1956	1961	1966	1971
49 Maymont	205	174	197	239	191	168
50 Mervin ^b	196	202	207	193	231	198
51 Meota	224	237	240	281	267	231
52 Shell Lake	132	239	258	141	264	254
53 Rabbit Lake	172	142	197	196	218	206
54 Marcelin	257	247	267	280	305	307
<i>Towns</i>						
55 Debden ^b	184	278	379	402	401	344
56 Leoville ^b		329 ^a	397	416	367	391
57 Borden	166	194	208	208	210	187
58 Edam ^b	179	230	264	277	310	333
59 Radisson ^b	349	402	500	515	489	414
60 Canwood	232	272	310	311	342	325
61 Glaslyn ^b	153	185	250	269	349	355 ^c
62 Hafford ^b	342	351	453	511	587	585
63 Big River ^b	513	901	904	896	898	824
64 Turtleford	275	280	367	352	429	419
65 Leask ^b	251	306	412	499	497	437
<i>Greater Towns</i>						
66 Spiritwood ^b	218	355	488	548	622	719 ^c
67 Shellbrook ^b	489	649	907	1,042	1,088	1,034
68 Meadow Lake ^b	971	1,956	2,477	2,803	3,375	3,426
<i>Cities</i>						
69 North Battleford ^b	4,745	7,473	8,924	11,230	12,262	12,453
Study Area Total	12,485	17,713	20,901	23,916	25,946	25,401
Province of Saskatchewan	895,992	831,728	880,665	925,181	955,344	926,245

... No acceptable figures could be established.

n.a. - Figures not available.

A blank space means no population figures were reported.

^a Incorporations: Makwa in 1965 from L.I.D. 983; Leoville in 1944 from L.I.D. 526.

^b Annexations to towns and villages: Mervin in 1962 from 499. Mervin; Debden in 1964 from 494. Canwood; Leoville in 1955 and 1958 from 496. Spiritwood; Edam in 1965 from 469. Turtle River; Radisson in 1959 from 405. Great Bend; Glaslyn in 1961 from 498. Parkdale; Hafford in 1954 from 493. Shellbrook and in 1962 from 435. Redberry; Big River in 1948 from L.I.D. 555; Leask in 1957 from 464. Leask; Spiritwood in 1945 from 496. Spiritwood; Shellbrook in 1953 from 493. Shellbrook; Meadow Lake in 1942, 1947 and 1949 from L.I.D. 588, and in 1966 from L.I.D. 980; North Battleford in 1958 from 437. North Battleford.

^c Change in boundary since June 1, 1966.

Source: Census of Canada, Statistics Canada, Ottawa.

TABLE 1.5 FARM POPULATION IN THE STUDY AREA BY RURAL MUNICIPALITY, CENSUS YEARS 1941 TO 1966

Rural Municipality	1941	1951	1956	1961	1966
<i>Census Division #16</i>					
405. Great Bend	1,990	1,309	1,149	948	897
406. Mayfield	1,363	1,102	977	891	724
434. Blaine Lake	2,419	1,580	1,416	1,365	774
435. Redberry	3,155	2,138	1,855	1,617	1,045
436. Douglas	1,778	1,189	1,095	982	925
437. North Battleford	1,745	1,322	1,243	1,303	991
464. Leask	1,962	2,243	1,816	1,552	1,219
466. Meeting Lake	1,988	1,642	1,387	1,067	886
467. Round Hill	1,707	1,090	992	937	697
493. Shellbrook	1,915	2,361	2,176	1,828	1,595
494. Canwood	1,685	1,439	3,298	2,829	2,665
496. Spiritwood	1,999	1,180	2,880	2,310	2,194
497. Medstead	1,859	1,323	1,099	925	990
974. L.I.D. ^a		800	690	519	519
986. L.I.D. ^a					
<i>Census Division #17</i>					
468. Meota	1,508	1,134	1,074	964	889
469. Turtle River	1,152	890	823	601	640
498. Parkdale	1,644	1,104	1,368	1,063	984
499. Mervin	1,500	1,200	1,050	879	861
980. L.I.D. ^a		1,640	1,630	1,380	1,235
Study Area Total	31,369	28,178	28,018	23,960	20,730
Farm Population of Saskatchewan	514,677	399,473	362,231	305,740	281,089

L.I.D. - Local Improvement District.

^aAll three L.I.D.'s were formed in 1949. L.I.D. 986 was annexed to L.I.D. 980 in 1969.

Source: Census of Canada, Statistics Canada, Ottawa.

Population by Sex and Age Groups

Tables 1.6 and 1.7 contain 1966 Census population data for the incorporated communities and rural municipalities that make up the study area. Provincial totals are also shown. In both the study area and the province, there were more males than females. For the province 51.2 percent of the population were male and for the study area 51.8 percent were male.

The 20 to 64 age group closely represents the effective working population (Table 1.7). It comprised 47.9 percent of the population in the province and 46.3 percent of the population in the study area. A significantly larger proportion of persons in the retired age group lived in incorporated communities than on farms or in unincorporated communities. For the other age groups, the proportions of people living in incorporated centers and in rural areas were about the same.

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966

	Total	Years of Age										70 and over
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Incorporated Communities												
32 Denholm	79	11	7	13	5	2	7	3	12	6	5	8
	43	10	3	7	3	1	3	2	5	2	2	5
	36	1	4	6	2	1	4	1	7	4	3	3
33 Ruddle	39	7	0	0	6	3	0	5	4	3	2	9
	17	1	0	0	2	2	0	2	2	2	1	5
	22	6	0	0	4	1	0	3	2	1	1	4
36 Fielding	52	2	5	7	7	0	1	5	8	6	3	8
	32	1	2	7	5	0	1	1	5	3	2	5
	20	1	3	0	2	0	0	4	3	3	1	3
41 Parkside	128	7	6	12	9	1	5	12	11	17	18	30
	63	3	3	6	6	1	2	5	4	4	12	17
	65	4	3	6	3	0	3	7	7	13	6	13
42 Makwa	156	14	18	21	16	4	9	16	12	15	7	24
	82	8	8	14	8	2	5	5	8	8	4	12
	74	6	10	7	8	2	4	11	4	7	3	12
44 Vawn	137	13	21	17	12	12	18	14	13	8	1	8
	71	5	13	11	2	8	7	6	7	5	0	7
	66	8	8	6	10	4	11	8	6	3	1	1
45 Krydor	157	4	3	10	7	4	11	10	18	33	17	40
	79	3	0	6	4	2	6	7	7	15	10	19
	78	1	3	4	3	2	5	3	11	18	7	21
46 Medstead	179	13	27	21	14	5	22	14	20	21	8	14
	93	6	12	12	9	3	7	6	9	15	4	10
	86	7	15	9	5	2	15	8	11	6	4	4
47 Speers	163	14	14	19	11	10	18	13	29	13	8	14
	79	9	9	9	5	5	7	7	12	5	4	7
	84	5	5	10	6	5	11	6	17	8	4	7

See footnotes at end of table

(continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over	
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69		
49	Maymont	T. M. F.	191 99 92	12 4 8	10 7 3	18 12 6	15 7 8	4 3 1	14 5 9	19 10 9	25 14 11	35 14 21	15 7 8	24 16 8
50	Mervin	T. M. F.	231 118 113	15 6 9	19 8 11	22 10 12	21 8 13	9 5 4	12 6 6	24 15 9	34 15 19	32 16 16	11 8 3	32 21 11
51	Meota	T. M. F.	267 138 129	29 11 18	28 17 11	26 14 12	22 10 12	11 6 5	18 8 10	19 8 11	31 13 18	30 21 9	15 7 8	38 23 15
52	Shell Lake	T. M. F.	264 130 134	20 13 7	27 17 10	19 8 11	29 8 21	8 3 5	10 6 4	24 8 16	32 13 19	49 29 20	11 7 4	35 18 17
53	Rabbit Lake	T. M. F.	218 121 97	13 11 2	22 11 11	19 15 4	15 9 6	10 2 8	21 8 13	23 11 12	27 15 12	21 11 10	10 5 5	37 23 14
54	Marcelin	T. M. F.	305 153 152	26 18 8	40 21 19	40 22 18	32 16 16	18 13 5	19 5 14	33 15 18	29 11 18	34 17 17	16 10 6	18 5 13
55	Debden	T. M. F.	401 184 217	59 25 34	50 21 29	53 26 27	37 13 24	21 6 15	40 23 17	35 16 19	30 12 18	34 21 13	14 6 8	28 15 13
56	Leoville	T. M. F.	367 189 178	35 18 17	39 25 14	45 18 27	37 18 19	19 14 5	34 20 14	31 14 17	38 17 21	45 19 26	18 13 5	26 13 13
57	Borden	T. M. F.	210 102 108	23 16 7	20 9 11	26 13 13	12 5 7	3 0 3	19 6 13	22 7 15	25 17 8	16 10 6	15 8 7	29 11 18

See footnotes at end of table

(continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over	
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69		
58	Edam	T. M. F.	310 153 157	34 23 11	39 18 21	32 14 18	24 12 12	12 7 5	26 12 14	38 22 16	20 8 12	22 9 13	17 7 10	46 21 25
59	Radisson	T. M. F.	489 239 250	38 18 20	40 20 20	54 22 32	36 19 17	25 10 15	48 22 26	46 25 21	47 20 27	63 32 31	32 19 13	60 32 28
60	Canwood	T. M. F.	342 177 165	32 19 13	45 22 23	39 22 17	26 15 11	7 3 4	36 14 22	39 21 18	29 15 14	32 13 19	19 11 8	38 22 16
61	Glaslyn	T. M. F.	349 182 167	38 23 15	25 10 15	28 17 11	44 25 19	25 11 14	30 16 14	35 15 20	41 26 15	32 15 17	17 5 12	34 19 15
62	Hafford	T. M. F.	587 284 303	43 14 29	38 21 17	53 34 19	35 13 22	29 17 12	43 22 21	65 32 33	67 28 39	69 34 35	53 22 31	92 47 45
63	Big River	T. M. F.	898 461 437	120 58 62	107 50 57	109 58 51	91 46 45	54 28 26	77 41 36	95 50 45	79 36 43	75 41 34	24 13 11	67 40 27
64	Turtleford	T. M. F.	429 220 209	54 25 29	36 20 16	28 17 11	42 23 19	38 16 22	47 23 24	33 15 18	52 22 30	43 23 20	16 15 1	40 21 19
65	Leask	T. M. F.	497 246 251	48 22 26	49 21 28	41 25 16	46 21 25	20 9 11	41 25 16	46 21 25	55 24 31	60 29 31	29 15 14	62 34 28
66	Spiritwood	T. M. F.	622 316 306	83 41 42	70 31 39	55 34 21	56 36 20	52 24 28	69 34 35	61 30 31	45 21 24	61 25 36	21 15 6	49 25 24

See footnotes at end of table

(continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
67	Shellbrook	T. M. F.	1,088 546 542	109 60 49	105 59 46	124 61 63	89 46 43	52 27 25	94 41 53	131 63 68	106 52 54	48 20 28	133 72 61
68	Meadow Lake	T. M. F.	3,375 1,695 1,680	431 225 206	423 212 211	371 196 175	319 147 172	212 95 117	330 173 157	324 149 175	262 139 123	107 58 49	285 158 127
69	North Battleford	T. M. F.	12,262 6,015 6,247	1,464 729 735	1,357 685 672	1,192 634 558	1,122 522 600	939 423 516	1,469 731 738	1,240 572 668	979 464 515	337 169 168	846 449 397
Rural Municipalities ^a													
405.	Great Bend	T. M. F.	909 495 414	103 62 41	108 54 54	121 64 57	90 55 35	43 24 19	77 38 39	118 64 54	92 57 35	18 11 7	41 20 21
406.	Mayfield	T. M. F.	763 410 353	79 46 33	92 51 41	84 38 46	85 47 38	20 9 11	82 44 38	104 56 48	83 49 34	19 13 6	29 15 14
434.	Blaine Lake	T. M. F.	873 478 395	76 40 36	82 50 32	122 71 51	92 48 44	26 11 15	70 36 34	146 77 69	103 64 39	7 4 3	29 16 13
435.	Redberry	T. M. F.	1,184 629 555	92 46 46	116 57 59	125 61 64	117 57 60	35 21 14	96 50 46	193 112 81	154 89 65	46 32 14	44 21 23
436.	Douglas	T. M. F.	1,023 551 472	110 49 61	117 63 54	110 53 57	82 52 30	35 18 17	92 42 50	148 89 59	102 59 43	23 10 13	60 37 23
437.	North Battleford	T. M. F.	1,001 523 478	109 61 48	122 57 65	137 65 72	98 48 50	46 24 22	102 50 52	113 59 54	99 59 40	31 22 9	41 29 12

See footnotes at end of table (continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

		Years of Age										70 and over
	Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
464. Leask	T. 1,489 M. 810 F. 679	163 84 79	182 102 80	178 85 93	158 88 70	72 38 34	162 88 74	173 92 81	176 100 76	123 74 49	43 28 15	59 31 28
466. Meeting Lake	T. 1,081 M. 577 F. 504	111 60 51	126 62 64	129 63 66	111 52 59	51 27 24	107 60 47	151 83 68	108 63 45	116 69 47	23 14 9	48 24 24
467. Round Hill	T. 756 M. 429 F. 327	69 40 29	80 43 37	91 44 47	60 36 24	37 23 14	63 31 32	97 53 44	115 64 51	86 58 28	21 9 12	37 28 9
468. Meota ^b	T. 1,181 M. 624 F. 557	145 73 72	149 88 61	161 74 87	132 62 70	48 32 16	93 46 47	133 61 72	130 73 57	106 65 41	30 20 10	54 30 24
469. Turtle River	T. 671 M. 352 F. 319	96 42 54	88 46 42	93 52 41	62 29 33	24 13 11	58 33 25	72 33 39	71 41 30	61 38 23	17 10 7	29 15 14
493. Shellbrook	T. 2,100 M. 1,103 F. 997	213 100 113	242 122 120	276 145 131	215 108 107	89 49 40	177 88 89	220 105 115	267 144 123	235 145 90	61 35 26	105 62 43
494. Canwood	T. 3,072 M. 1,654 F. 1,418	361 192 169	406 202 204	434 225 209	328 175 153	129 73 56	230 105 125	357 187 170	344 195 149	240 153 87	90 54 36	153 93 60
496. Spiritwood	T. 2,399 M. 1,304 F. 1,095	313 160 153	331 166 165	297 147 150	212 120 92	89 45 44	268 149 119	279 159 120	237 125 112	219 127 92	61 43 18	93 63 30
497. Medstead	T. 1,089 M. 590 F. 499	139 69 70	128 72 56	140 71 69	108 59 49	54 33 21	104 56 48	126 69 57	100 49 51	109 66 43	33 18 15	48 28 20

See footnotes at end of table

(continued)

TABLE 1.6 POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (concluded)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
498. Parkdale	T.	1,128	105	127	148	109	55	108	124	127	118	37	70
	M.	618	53	64	77	53	31	60	74	64	70	26	46
	F.	510	52	63	71	56	24	48	50	63	48	11	24
499. Mervin	T.	1,111	103	118	150	119	38	101	141	138	88	30	85
	M.	603	59	65	77	61	23	54	73	72	51	18	50
	F.	508	44	53	73	58	15	47	68	66	37	12	35
974. L.I.D.	T.	867	124	113	104	96	41	74	100	89	76	13	37
	M.	490	62	69	60	56	19	38	53	54	45	10	24
	F.	377	62	44	44	40	22	36	47	35	31	3	13
980. L.I.D.	T.	457	90	76	51	37	30	47	43	33	35	9	6
	M.	251	52	41	25	16	15	30	21	14	23	9	5
	F.	206	38	35	26	21	15	17	22	19	12	0	1
986. L.I.D.	T.	190	29	42	29	19	16	13	15	13	7	4	3
	M.	104	18	25	11	12	13	5	6	6	4	2	2
	F.	86	11	17	18	7	3	8	9	7	3	2	1
Study Area Total	T.	48,136	5,441	5,535	5,494	4,567	2,587	4,712	5,253	5,298	4,474	1,530	3,245
	M.	24,922	2,793	2,854	2,852	2,297	1,287	2,382	2,630	2,691	2,458	867	1,811
	F.	23,214	2,648	2,681	2,642	2,270	1,300	2,330	2,623	2,607	2,016	663	1,434
Saskatchewan Total	T.	955,344	107,515	110,130	103,304	88,412	62,150	104,651	110,413	103,270	76,617	27,264	61,618
	M.	489,040	54,979	56,128	53,042	44,786	31,551	53,255	56,052	52,290	40,352	14,057	32,548
	F.	466,304	52,536	54,002	50,262	43,626	30,599	51,396	54,361	50,980	36,265	13,207	29,070

T. - Total M. - Male F. - Female

^aRural municipality data include farm and unincorporated community population but exclude populations of incorporated communities.
^bIncludes Metinota Summer Village.

Source: Census of Canada, 1966, Statistics Canada, Ottawa.

TABLE 1.7 PROPORTION OF POPULATION FALLING WITHIN THREE SPECIFIED AGE GROUPS, 1966

	Pre-School And School Age Groups (0 to 19 years)	Working Age Group (20 to 64)	Retired Age Group (65 and over)
	- percent -		
<i>Incorporated Communities</i>			
32 Denholm	45.6	38.0	16.4
33 Ruddell	33.3	38.5	28.2
36 Fielding	40.4	38.5	21.1
41 Parkside	26.6	35.9	37.5
42 Makwa	44.2	35.9	19.9
44 Vawn	46.0	47.4	6.6
45 Krydor	15.3	48.4	36.3
46 Medstead	41.9	45.8	12.3
47 Speers	35.6	50.9	13.5
49 Maymont	28.8	50.8	20.4
50 Mervin	33.3	48.1	18.6
51 Meota	39.3	40.8	19.9
52 Shell Lake	36.0	46.6	17.4
53 Rabbit Lake	31.7	46.8	21.5
54 Marcelin	45.2	43.6	11.2
55 Debden	49.6	39.9	10.5
56 Leoville	42.5	45.5	12.0
57 Borden	38.6	40.5	20.9
58 Edam	41.6	38.1	20.3
59 Radisson	34.3	46.8	18.9
60 Canwood	41.5	41.8	16.7
61 Glaslyn	38.7	46.7	14.6
62 Hafford	28.8	46.5	24.7
63 Big River	47.6	42.3	10.1
64 Turtleford	37.3	49.7	13.0
65 Leask	37.0	44.7	18.3
66 Spiritwood	42.4	46.3	11.3
67 Shellbrook	39.3	44.1	16.6
68 Meadow Lake	45.8	42.6	11.6
69 North Battleford	41.9	48.5	9.6
<i>Rural Municipalities</i>			
405. Great Bend	46.4	47.1	6.5
406. Mayfield	44.6	49.1	6.3
434. Blaine Lake	42.6	53.3	4.1
435. Redberry	38.0	54.4	7.6
436. Douglas	41.0	50.9	8.1
437. North Battleford	46.6	46.3	7.1
464. Leask	45.7	47.4	6.9
466. Meeting Lake	44.1	49.3	6.6
467. Round Hill	39.7	52.6	7.7
468. Meota ^a	49.7	43.2	7.1
469. Turtle River	50.5	42.6	6.9
493. Shellbrook	45.0	47.0	8.0
494. Canwood	49.8	42.3	7.9
496. Spiritwood	48.1	45.5	6.4
497. Medstead	47.3	45.3	7.4
498. Parkdale	43.4	47.2	9.4
499. Mervin	44.1	45.5	10.4
974. L.I.D.	50.4	43.8	5.8
980. L.I.D.	55.6	41.1	3.3
986. L.I.D.	62.6	33.7	3.7
Study Area Total	43.7	46.3	10.0
Saskatchewan Total	42.8	47.9	9.3

^aIncludes Metinota Summer Village.

Source: Calculated from Table 1.6.

School Enrolment

The school enrolment figures in Table 1.8 indicate that the trend towards school consolidation in Western Canada has affected the Shellbrook-Turtleford study area. There were no schools in communities "too small to classify". In the hamlets, only Glenbush, Richard and Mont Nebo had any elementary grades. The villages of Whitkow, Mullingar, Holbein and Krydor did not have schools. Grades 1 to 6 or higher were offered in all the other villages, Parkside excepted. There the only grades given were 1 to 4. Complete elementary and secondary grades were available in towns and greater towns other than Edam where only grades 1 to 9 were provided. Of course, all grades were taught in both the public and separate school systems of North Battleford.

TABLE 1.8 SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1971-72

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux.	Total	Pupils Conveyed to (Grades)
<i>Too Small to Classify</i>																
1 Hartwell	No School															Turtleford (1-12)
2 Cameo	No School															Shellbrook (1-12)
3 Bournemouth	No School															Rabbit Lake (1-12)
4 Dulwich	No School															Lloydminster (1-12)
5 Cleaves	No School															Spruce Lake (1-6)
																St. Walburg (7-12)
6 Ormeaux	No School															Debden (1-12)
7 Ordale	No School															Shellbrook (1-12)
8 Tallman	No School															Blaine Lake (1-12)
9 Kilwinning	No School															Leask (1-12)
10 Redberry	No School															Hafford (1-12)
11 Scentgrass	No School															North Battleford (1-12)
12 Polwarth	No School															Canwood (1-12)
13 Cater	No School															Medstead (1-12)
14 Brada	No School															Battleford (1-9)
																North Battleford (10-12)
15 Lilac	No School															Maymont (1-12)
16 Iffley	No School															North Battleford (1-12)
17 Ranger	No School															Leoville (1-12)
<i>Hamlets</i>																
18 Hatherleigh	No School															North Battleford (1-12)
19 Redfield	No School															Mayfair (1-12)
20 Hamlin	No School															North Battleford (1-12)
21 Crutwell	No School															Redwing (1-8)
																Prince Albert Comp. (9-12)
22 Cavalier	No School															Edam (1-9) Vawn (10-12)
23 Keatley	No School															Speers (1-8)
																Hafford (9-12)
24 Bapaume	No School															Major (1-12)
25 Robinhood	No School															Mayfair (1-12)
26 Fairholme	No School															Glaslyn (1-12)
27 Sandwith	No School															Medstead (1-12)
28 Mildred	No School															Spiritwood (1-12)
29 Belbutte	No School															Medstead (1-12)
30 Prince	No School															North Battleford (1-12)
31 Richard	No School	2	4	3	3										12	Maymont (5-9)
																North Battleford (10-12)
32 Denholm	No School															Battleford (1-9)
																North Battleford (10-12)
33 Ruddell	No School															Maymont (1-12)
34 Alticane	No School	7	6	10	14	7	12	12	16						81	Mayfair (1-12)
35 Glenbush	No School															Medstead (9-12)
36 Fiedling	No School	4	17	9	8	13	10								64	Maymont (1-12)
37 Mont Nebo	No School															Shellbrook (7-12)

(continued)

See footnotes at end of table

TABLE 1.8 SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1971-72 (concluded)

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux.	Total	Pupils Conveyed to (Grades)
- enrolment -																
<i>Villages</i>																
38 Whitkow	No School															Mayfair (1-12)
39 Mullingar	No School															Mayfair (1-12)
40 Holbein	No School															Shellbrook (1-12)
41 Parkside		9	3	10	5		16	19	13	15	11	13	7	10	27	Shellbrook (5-12)
42 Makwa		15	17	12	16		16	19	13	15					164	Turtleford (9-12)
43 Livelong		6	10	13	9		14	9	12	11					84	Edam (7-9)
44 Vawn		20	18	19	18		26	26				41	22	28	218	Blaine Lake (1-12)
45 Krydor	No School															Hafford (8-12)
46 Medstead		15	24	15	24	25	15	25	24	29	38	25	16		275	North Battleford (10-12)
47 Speers		8	4	7	7	6	3	3							38	
48 Mayfair		13	17	19	26	23	20	25	22	26	19	24	21		255	
49 Maymont		28	19	21	18	25	20	17	21	20	25	19	20		253	
50 Mervin		11	7	9	10	8	10	9	5						69	Turtleford (9-12)
51 Meota		4	14	8	14	10	6	8	2						66	North Battleford (9-12)
52 Shell Lake		26	30	26	22	32	30	22	27	19	14	15	10	16	283	
53 Rabbit Lake		10	12	15	12	14	14	8	15	9	10	12	11		142	
54 Marcelin		25	21	16	22	23	33	29	30	20	19	20	18		276	
<i>Towns</i>																
55 Deben		50	33	31	37	48	42	41	33	28	27	26	35	26	457	Vawn (10-12)
56 Leoville		44	54	37	46	42	34	56	31	28	22	21	18		433	
57 Borden		11	12	8	10	10	13	7	18	23	18	17	21		168	
58 Edam		18	17	17	14	16	19	41	34	44					220	
59 Radisson		14	15	13	15	20	13	15	14	23	16	20	11	18	189	
60 Canwood		65	33	30	41	51	32	30	50	42	30	21	21		464	
61 Glaslyn		35	28	28	18	27	27	31	22	28	16	14	17		291	
62 Hafford		19	25	21	27	26	25	32	26	27	23	23	19		293	
63 Big River		46	52	38	43	44	41	42	43	56	28	35	19	27	514	
64 Turtleford		60	41	38	42	27	43	30	30	35	49	30	32	16	473	
65 Leask		44	35	40	38	32	33	45	47	32	27	24	15		412	
<i>Greater Towns</i>																
66 Spiritwood		16	30	27	33	23	31	20	21	18					219	
- Separate		37	55	25	31	27	36	25	33	29	31	31	26		386	
- Public		54	41	50	41	59	65	62	67	77	50	58	39	6	669	
67 Shellbrook		162	169	137	171	137	136	137	122	150	117	116	84		1,638	
68 Meadow Lake																
<i>Cities</i>																
69 North Battleford		115	147	132	130	149	111	127	140	138	161	127	126	102	1,705	
- Separate		181	186	186	196	158	185	200	188	179	307	272	237	219	2,694	
- Public																
Aux. - Auxiliary																

Source: Saskatchewan Department of Education, Regina.

Post Office Revenue

Post office revenue is a crude indicator of socio-economic activity in a community and its environs (Table 1.9). Three of the 17 communities "too small to classify" never had post offices and the post offices in the other 14 have been discontinued. The last of these closed at Iffley in 1970. There has never been a post office in the hamlet of Hamlin. Group postal boxes for the deposit of mail addressed to local residents have been placed in 5 communities "too small to classify", 8 hamlets and 1 village.

In 1971, postal revenues for villages ranged from \$114 at Whitkow to \$6,083 at Shell Lake, while towns ranged from \$4,909 at Borden to \$12,687 at Big River. In greater towns, the range was from \$15,349 at Spiritwood to \$47,060 at Meadow Lake. Postal revenue at North Battleford was \$210,141 in 1971.

Postal receipts in all villages except Whitkow, all towns, greater towns and the city of North Battleford have risen over time. The largest percentage gain occurred at Leoville where the increase was about 138 percent between 1963 and 1971. Other communities to double their postal revenues were Ruddell, Mont Nebo, Holbein, Mayfair, Shell Lake and Spiritwood.

TABLE 1.9 POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1962-63 TO 1970-71

Delivery Point	Year Ending March 31	1963	1964	1965	1966	1967	1968	1969	1970	1971
- dollars -										
<i>Too Small to Classify</i>										
1 Hartwell		No Post Office								
2 Cameo		Closed 1961								
3 Bournemouth		Closed 1958								
4 Dulwich		Closed 1962								
5 Cleaves		363	267	215	255	37	Closed June 1966			
6 Ormeaux		Closed 1959								
7 Ordale		309	296	283	293	291	291	289	50	Closed July 1969 ^a
8 Tallman		247	257	269	234	225	217	95	Closed Sept. 1968	
9 Kilwinning		214	155	Closed Dec. 1963						
10 Redberry		192	210	170	172	176	231	204	251	Closed March 1970
11 Scentgrass		No Post Office								
12 Polwarth		170	145	162	130	135	166	Closed March 1968		
13 Cater		141	156	203	279	273	310	255	263	25
14 Brada		No Post Office								Closed April 1970 ^a
15 Lilac		297	329	341	305	153	Closed Feb. 1967 ^a			
16 Ifley		150	181	167	182	173	167	125	163	63
17 Ranger		232	187	217	146	143	140	52	Closed Oct. 1968 ^a	Closed July 1970 ^a
<i>Hamlets</i>										
18 Hatherleigh		118	110	99	112	96	132	119	126	44
19 Redfield		134	115	106	158	147	132	131	171	68
20 Hamlin		No Post Office								
21 Crutwell		125	123	158	147	146	120	105	115	94
22 Cavalier		251	272	268	237	82	Closed June 1966			
23 Keatley		396	414	378	Closed Dec. 1965					
24 Bapaume		537	555	577	560	521	492	535	627	159
25 Robinhood		352	353	402	435	421	377	381	362	Closed July 1970 ^a
26 Fairholme		474	472	460	449	376	450	376	222	Closed April 1970 ^a
27 Sandwith		421	383	359	447	444	440	482	139	Closed Nov. 1969 ^a
28 Mildred		782	711	691	652	597	606	613	732	Closed Aug. 1969 ^a
29 Belbutte		597	612	578	643	587	549	539	641	1,051
30 Prince		589	577	675	667	554	407	506	479	171
31 Richard		1,332	1,224	1,316	1,233	989	920	1,001	991	107
32 Denholm		666	626	673	709	653	620	640	725	Closed July 1970 ^a
33 Rudell		659	673	703	626	735	746	760	1,005	Closed July 1970 ^a
34 Alticane		603	562	570	579	551	564	632	620	1,367
35 Glenbush		817	773	788	793	759	715	687	931	934
										1,225

See footnotes at end of table

(continued)

TABLE 1.9 POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1962-63 TO 1970-71 (continued)

Delivery Point	Year Ending March 31									
	1963	1964	1965	1966	1967	1968	1969	1970	1971	
	- dollars -									
36 Fielding	759	737	711	780	680	645	640	670	752	
37 Mont Nebo	830	860	864	825	799	826	834	951	1,687	
<i>Villages</i>										Closed July 1970 ^a
38 Whitkow	341	356	320	394	377	355	324	407	114	
39 Mullingar	907	903	850	889	867	879	677	860	940	
40 Holbein	613	615	676	736	694	784	709	1,037	1,425	
41 Parkside	1,530	1,518	1,757	1,702	1,751	1,795	1,968	2,147	3,040	
42 Makwa	1,327	1,458	1,571	1,648	1,683	1,688	1,621	1,776	2,180	
43 Livelong	1,571	1,619	1,695	1,732	1,644	1,761	1,679	2,031	2,845	
44 Vawn	1,255	1,298	1,260	1,297	1,299	1,393	1,412	1,569	1,868	
45 Krydor	1,368	1,349	1,368	1,453	1,405	1,511	1,345	1,420	2,359	
46 Medstead	3,115	3,034	3,077	3,045	2,876	2,707	2,710	2,977	4,632	
47 Speers	1,969	2,070	2,281	2,016	2,048	2,224	2,144	2,187	2,507	
48 Mayfair	1,344	1,393	1,569	1,511	1,399	1,419	1,611	1,801	3,031	
49 Maymont	2,234	2,267	2,458	2,581	2,505	2,652	2,701	2,889	3,497	
50 Mervin	2,485	2,472	2,716	3,218	2,951	3,096	3,033	3,273	4,282	
51 Meota	2,248	2,195	2,260	2,215	2,400	2,651	2,488	2,796	3,718	
52 Shell Lake	2,624	2,654	2,799	2,969	3,181	3,421	3,526	4,018	6,083	
53 Rabbit Lake	1,982	2,057	1,995	2,188	2,147	2,368	2,436	2,591	3,605	
54 Marcelin	2,676	2,879	3,466	2,934	3,243	3,392	3,410	3,745	4,856	
<i>Towns</i>										
55 Debden	4,165	4,517	4,975	4,706	4,719	4,810	4,584	5,431	7,439	
56 Leoville	2,736	2,849	3,123	3,042	3,421	3,715	4,033	4,514	6,500	
57 Borden	3,122	3,378	3,485	3,447	3,354	3,440	3,600	3,826	4,909	
58 Edam	2,799	3,135	3,180	3,309	3,345	3,503	3,562	3,861	5,019	
59 Radisson	3,766	3,819	4,004	4,017	4,135	4,052	4,217	4,773	6,127	
60 Canwood	4,073	4,110	4,507	4,558	4,690	5,130	5,480	6,338	8,047	
61 Glaslyn	3,964	4,308	4,953	4,753	4,470	5,325	5,386	5,711	7,872	
62 Hafford	5,123	5,386	5,882	6,384	6,389	6,910	6,706	7,014	9,609	
63 Big River	7,102	6,896	7,953	7,919	8,375	8,808	9,038	10,259	12,687	
64 Turtleford	6,085	6,237	6,714	7,351	7,764	7,567	7,857	9,147	11,622	
65 Leask	4,949	5,122	5,602	5,721	5,632	6,425	6,463	7,079	9,315	
<i>Greater Towns</i>										
66 Spiritwood	6,952	7,242	8,688	8,925	9,056	9,468	10,920	11,456	15,349	

See footnotes at end of table (continued)

Property Tax Assessment

Table 1.10 presents details of tax assessment for each of the 69 grain delivery points in the Shellbrook-Turtleford study area. The purpose of this table is to show the relative importance of railway and railway associated properties to the tax base of communities. In conveying this relationship, the total assessment of railway right-of-way properties, including trackage, warehouses, bulk fuel tanks, grain elevators, etc., as a percent of the total tax assessment of the community, is used.

Generally speaking, the smaller a community is, the higher the proportion of its tax base that is related to right-of-way properties. For example, 100 percent of the tax base in Redberry is made up of railway property while North Battleford derives only 2.4 percent of its taxes from right-of-way properties. This relationship, of course, reflects the greater diversification of economic activities in a larger center.

The usual reason for the tax assessment of right-of-way properties being a small proportion of total assessment in some of the smaller centers is that the grain elevators have closed and been removed, while other non-right-of-way buildings remain. Two examples of this are Kilwinning and Belbutte.

For each community classification group (figures not shown in Table 1.10), railway and railway associated assessments amount to the following percentages of the tax base: "too small to classify", 75 percent; hamlets, 63 percent; villages, 27 percent; towns, 14 percent; greater towns, 11 percent; and 2 percent for the city of North Battleford.

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972

	<i>Too Small to Classify</i>				
	1 Hartwell	2 Cameo	3 Bournemouth	4 Dulwich	5 Cleves
- dollars -					
<i>Right-of-Way Properties</i>					
Railway Property	*	*	*	*	*
Roadway	280	320	370	290	310
Other Land	-	-	-	-	-
Buildings	-	-	-	-	-
Business	-	-	-	-	-
Other Property					
Taxable Land	-	-	40	-	-
Taxable Buildings	-	-	4,170	-	-
Taxable Business	-	-	-	-	-
Total Assessment of R.O.W. Properties	280	320	4,580	290	310
<i>Non-Right-of-Way Properties</i>					
Taxable Land	-	-	80	-	380
Taxable Buildings	-	-	-	-	1,680
Taxable Business	-	-	-	-	-
Total Assessment of Non-Right-of-Way Properties	-	-	80	-	2,060
Total Tax Assessment	280	320	4,660	290	2,370
Percent of Tax Assessment derived from R.O.W. Properties	100.0	100.0	98.3	100.0	13.1

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	<i>Too Small to Classify (cont'd)</i>				
	6 Ormeaux	7 Ordale	8 Tallman	9 Kilwinning	10 Redberry
<i>Right-of-Way Properties</i>					
- dollars -					
Railway Property					
Roadway	*	*	*	*	*
Other Land	420	370	320	240	370
Buildings	180	-	-	-	-
Business	100	-	-	-	-
Other Property					
Taxable Land	-	60	120	-	-
Taxable Buildings	-	-	25,120	-	40
Taxable Business	-	-	3,690	-	8,910
Total Assessment of R.O.W. Properties	700	430	29,250	240	9,320
<i>Non-Right-of-Way Properties</i>					
Taxable Land	190	180	200	400	-
Taxable Buildings	1,490	10,990	4,650	5,120	-
Taxable Business	-	-	-	1,650	-
Total Assessment of Non-Right-of-Way Properties	1,680	11,170	4,850	7,170	-
Total Tax Assessment	2,380	11,600	34,100	7,410	9,320
Percent of Tax Assessment derived from R.O.W. Properties	29.4	3.7	85.8	3.2	100.0

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	Too Small to Classify (cont'd)				
	11 Scentgrass	12 Polwarth	13 Cater	14 Brada	15 Lilac
	- dollars -				
Right-of-Way Properties					
Railway Property	*	*	*	*	*
Roadway	380	410	470	390	170
Other Land	-	-	180	-	-
Buildings	-	-	100	-	-
Business	-	-	-	-	-
Other Property					
Taxable Land	90	50	70	110	40
Taxable Buildings	14,870	11,010	7,400	10,390	7,920
Taxable Business	3,160	2,010	-	3,580	1,600
Total Assessment of R.O.W. Properties	18,500	13,480	8,220	14,470	9,730
Non-Right-of-Way Properties					
Taxable Land	90	100	310	50	60
Taxable Buildings	-	1,260	4,390	1,550	850
Taxable Business	-	600	1,280	-	-
Total Assessment of Non-Right-of-Way Properties	90	1,960	5,980	1,600	910
Total Tax Assessment	18,590	15,440	14,200	16,070	10,640
Percent of Tax Assessment derived from R.O.W. Properties	99.5	87.3	57.9	90.0	91.4

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	<i>Too Small to Classify (cont'd)</i>			<i>Hamlets</i>	
	16 Iffley	17 Ranger	18 Hatherleigh	19 Redfield	20 Hamlin
<i>Right-of-Way Properties</i>					
- dollars -					
Railway Property					
Roadway	*	*	*	*	*
Other Land	410	680	450	420	390
Buildings	-	190	1,800	280	230
Business	-	100	100	100	100
Other Property					
Taxable Land	80	70	40	120	130
Taxable Buildings	16,050	7,670	7,080	8,290	39,270
Taxable Business	3,620	-	-	2,050	4,310
Total Assessment of R.O.W. Properties	20,160	8,710	9,470	11,260	44,430
<i>Non-Right-of-Way Properties</i>					
Taxable Land	-	550	130	530	150
Taxable Buildings	2,420	5,710	1,900	3,490	16,870
Taxable Business	-	650	870	-	-
Total Assessment of Non-Right-of-Way Properties	2,420	6,910	2,900	4,020	17,020
Total Tax Assessment	22,580	15,620	12,370	15,280	61,450
Percent of Tax Assessment derived from R.O.W. Properties	89.3	55.8	76.6	73.7	72.3

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	<i>Hamlets (cont'd)</i>			
	21 Crutwell	22 Cavalier	23 Keatley	24 Bapaume 25 Robinhood
	- dollars -			
<i>Right-of-Way Properties</i>				
Railway Property	*	*	*	*
Roadway	430	340	540	390
Other Land	240	-	240	290
Buildings	-	-	100	100
Business	-	-	-	-
Other Property				
Taxable Land	70	120	280	-
Taxable Buildings	10,190	22,800	29,620	16,170
Taxable Business	3,600	3,930	5,430	3,520
Total Assessment of R.O.W. Properties	14,530	27,190	36,210	20,470
				11,190
<i>Non-Right-of-Way Properties</i>				
Taxable Land	200	720	470	1,140
Taxable Buildings	4,940	5,010	3,110	5,790
Taxable Business	720	1,130	-	990
Total Assessment of Non-Right-of-Way Properties	5,860	6,860	3,580	7,920
Total Tax Assessment	20,390	34,050	39,790	28,390
				19,210
Percent of Tax Assessment derived from R.O.W. Properties	71.3	79.9	91.0	72.1
				58.3

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	Hamlets (cont'd)			
	26 Fairholme	27 Sandwith	28 Mildred	29 Belbutte 30 Prince
<i>Right-of-Way Properties</i>			- dollars -	
Railway Property				
Roadway	*	*	*	*
Other Land	450	340	490	380
Buildings	-	340	280	700
Business	-	100	100	100
Other Property				
Taxable Land	120	60	80	-
Taxable Buildings	14,070	9,640	11,260	-
Taxable Business	3,280	2,010	2,260	-
Total Assessment of R.O.W. Properties	17,920	12,490	14,470	1,180
				32,730
<i>Non-Right-of-Way Properties</i>				
Taxable Land	1,750	530	2,190	1,600
Taxable Buildings	15,970	4,310	16,780	16,230
Taxable Business	960	-	2,780	2,440
Total Assessment of Non-Right-of-Way Properties	18,680	4,840	21,750	20,270
				27,920
Total Tax Assessment	36,600	17,330	36,220	21,450
				60,650
Percent of Tax Assessment derived from R.O.W. Properties	49.0	72.1	40.0	5.5
				54.0

See footnotes at end of table

(continued)

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	<i>Villages</i>			
	31 Richard	32 Denholm	33 Ruddell	34 Alticane 35 Glenbush
	- dollars -			
<i>Right-of-Way Properties</i>				
Railway Property				*
Roadway	1,950	1,710	1,680	520
Other Land	630	470	610	320
Buildings	1,550	1,710	1,430	100
Business	100	100	100	
Other Property				
Taxable Land	330	-	160	130
Taxable Buildings	39,500	90	19,390	9,300
Taxable Business	7,460	5,950	4,150	1,600
Total Assessment of R.O.W. Properties	51,520	10,030	27,520	11,950
				24,730
<i>Non-Right-of-Way Properties</i>				
Taxable Land	3,130	2,780	4,110	3,100
Taxable Buildings	22,720	65,130	29,770	16,605
Taxable Business	1,420	810	3,040	930
Total Assessment of Non-Right-of-Way Properties	27,270	68,720	36,920	20,635
				20,780
Total Tax Assessment	78,790	78,750	64,440	32,585
				45,510
Percent of Tax Assessment derived from R.O.W. Properties	65.4	12.7	42.7	36.7
				54.3

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	Villages (cont'd)				
	36 Fielding	37 Mont Nebo	38 Whitkow	39 Mullingar	40 Holbein
Right-of-Way Properties			- dollars -		
Railway Property					
Roadway	2,550	*	*	*	*
Other Land	680	480	560	430	760
Buildings	-	820	-	230	240
Business	-	100	-	100	100
Other Property					
Taxable Land	180	190	190	160	350
Taxable Buildings	17,390	22,340	12,440	17,540	55,740
Taxable Business	4,080	3,140	3,450	3,380	9,620
Total Assessment of R.O.W. Properties	24,880	27,070	16,640	21,840	66,810
Non-Right-of-Way Properties					
Taxable Land	4,210	2,530	1,770	2,010	2,200
Taxable Buildings	17,420	40,130	15,450	17,830	23,200
Taxable Business	930	6,910	3,750	4,120	1,470
Total Assessment of Non-Right-of-Way Properties	22,560	49,570	20,970	23,960	26,870
Total Tax Assessment	47,440	76,640	37,610	45,800	93,680
Percent of Tax Assessment Derived from R.O.W. Properties	52.4	35.3	44.2	47.7	71.3

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	<i>Villages (cont'd)</i>				
	41 Parkside	42 Makwa	43 Livelong	44 Vawn	45 Krydor
<i>Right-of-Way Properties</i>					
Railway Property					
Roadway	1,770	-	*	1,380	1,410
Other Land	660	-	480	680	730
Buildings	1,780	-	1,310	1,840	1,530
Business	220	-	100	290	620
Other Property					
Taxable Land	370	-	160	310	1,140
Taxable Buildings	35,630	-	16,700	27,460	43,280
Taxable Business	8,660	-	3,260	4,410	7,890
Total Assessment of R.O.W. Properties	49,040	-	22,010	36,370	56,600
<i>Non-Right-of-Way Properties</i>					
Taxable Land	9,830	8,030	5,960	6,930	18,310
Taxable Buildings	68,350	67,110	57,650	77,640	105,596
Taxable Business	2,610	16,700	13,400	7,430	10,780
Total Assessment of Non-Right-of-Way Properties	80,790	91,840	77,010	92,000	134,686
Total Tax Assessment	129,880	91,840	99,020	128,370	191,286
Percent of Tax Assessment Derived from R.O.W. Properties	37.8	0.0	22.2	28.3	29.6

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	<i>Villages (cont'd)</i>				
	46 Medstead	47 Speers	48 Mayfair	49 Maymont	50 Mervin
<i>Right-of-Way Properties</i>					
- dollars -					
Railway Property					
Roadway	1,870	1,530	*	1,560	1,830
Other Land	870	1,190	560	1,070	830
Buildings	5,030	4,970	3,870	2,810	1,700
Business	830	700	640	1,010	850
Other Property					
Taxable Land	590	930	320	880	680
Taxable Buildings	31,240	51,280	21,840	34,700	28,310
Taxable Business	10,660	13,450	4,780	7,010	7,140
Total Assessment of R.O.W. Properties	51,090	74,050	32,010	49,040	41,340
<i>Non-Right-of-Way Properties</i>					
Taxable Land	17,560	15,120	6,810	17,700	18,890
Taxable Buildings	113,880	110,060	59,680	106,960	137,490
Taxable Business	11,890	18,900	9,930	12,600	17,140
Total Assessment of Non-Right-of-Way Properties	143,330	144,080	76,420	137,260	173,550
Total Tax Assessment	194,420	218,130	108,430	186,300	214,860
Percent of Tax Assessment Derived from R.O.W. Properties	26.3	33.9	29.5	26.3	19.2

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	Villages (cont'd)				Towns	
	51 Meota	52 Shell Lake	53 Rabbit Lake	54 Marcelin	55 Debden	
	- dollars -					
<i>Right-of-Way Properties</i>						
Railway Property						
Roadway	2,400	1,470	2,580	1,590	2,370	
Other Land	1,900	1,080	810	1,600	1,370	
Buildings	2,400	4,610	2,470	4,760	3,140	
Business	670	680	710	750	610	
Other Property						
Taxable Land	1,400	800	550	1,360	1,080	
Taxable Buildings	1,860	27,530	40,380	73,790	60,920	
Taxable Business	12,300	7,950	8,800	9,920	17,070	
Total Assessment of R.O.W. Properties	22,930	44,120	56,300	93,770	86,560	
<i>Non-Right-of-Way Properties</i>						
Taxable Land	40,980	24,960	14,265	29,370	30,370	
Taxable Buildings	243,010	164,420	138,478	199,960	255,570	
Taxable Business	23,280	27,830	16,150	31,730	51,780	
Total Assessment of Non-Right-of-Way Properties	307,270	217,210	168,893	261,060	337,720	
Total Tax Assessment	330,200	261,330	225,193	354,830	424,280	
Percent of Tax Assessment Derived from R.O.W. Properties	6.9	16.9	25.0	26.4	20.4	

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	Towns (cont'd)			
	56 Leoville	57 Borden	58 Edam	59 Radisson 60 Canwood
- dollars -				
<i>Right-of-Way Properties</i>				
Railway Property				
Roadway	1,860	1,620	1,680	4,050
Other Land	2,150	1,420	1,590	2,090
Buildings	3,220	3,070	3,210	3,100
Business	1,110	1,480	580	1,740
				3,660
				2,120
				4,210
				720
Other Property				
Taxable Land	2,280	2,310	1,320	1,150
Taxable Buildings	32,090	70,240	48,910	23,810
Taxable Business	9,490	12,290	15,480	10,180
				22,590
Total Assessment of R.O.W. Properties	52,200	92,430	72,770	46,120
				121,810
<i>Non-Right-of-Way Properties</i>				
Taxable Land	45,570	30,280	42,160	79,590
Taxable Buildings	247,010	156,570	264,340	448,530
Taxable Business	35,200	28,840	27,990	57,920
				53,280
				278,190
				58,540
Total Assessment of Non-Right-of-Way Properties	327,780	215,690	334,490	586,040
				390,010
Total Tax Assessment	379,980	308,120	407,260	632,160
				511,820
Percent of Tax Assessment derived from R.O.W. Properties	13.7	30.0	17.9	7.3
				2.4

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (continued)

	Towns (cont'd)				
	61 Glaslyn	62 Hafford	63 Big River	64 Turtleford	65 Lease
- dollars -					
Right-of-Way Properties					
Railway Property					
Roadway	2,520	1,890	4,950	1,860	1,740
Other Land	1,160	3,210	1,600	1,920	2,760
Buildings	2,580	4,460	4,790	6,540	2,660
Business	660	1,180	1,420	920	810
Other Property					
Taxable Land	2,440	2,970	130	1,790	2,530
Taxable Buildings	39,260	67,120	-	55,000	105,740
Taxable Business	12,620	22,890	-	15,710	21,990
Total Assessment of R.O.W. Properties	61,240	103,720	12,890	83,740	138,230
Non-Right-of-Way Properties					
Taxable Land	28,960	147,830	108,200	77,960	81,750
Taxable Buildings	276,180	550,440	532,810	374,850	411,750
Taxable Business	75,705	84,370	99,360	68,070	61,540
Total Assessment of Non-Right-of-Way Properties	380,845	782,640	740,370	520,880	554,440
Total Tax Assessment	442,085	886,360	753,260	604,620	692,670
Percent of Tax Assessment derived from R.O.W. Properties	13.9	11.7	1.7	13.9	20.0

(continued)

See footnotes at end of table

TABLE 1.10 PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1972 (concluded)

	Greater Towns			Cities	
	66 Spiritwood	67 Shellbrook	68 Meadow Lake ^a	69 North Battleford ^a	
	- dollars -				
<i>Right-of-Way Properties</i>					
Railway Property					
Roadway	6,050	6,250	6,900	46,920	
Other Land	5,640	9,510	58,020	90,460	
Buildings	3,070	6,230	5,520	79,450	
Business	770	1,690	2,030	17,110	
Other Property					
Taxable Land	6,180	1,940	70,380	92,510	
Taxable Buildings	82,890	134,000	270,920	107,900	
Taxable Business	14,170	37,390	101,280	91,420	
Total Assessment of R.O.W. Properties	118,770	197,010	515,050	525,770	
<i>Non-Right-of-Way Properties</i>					
Taxable Land	159,060	276,940	1,227,550	6,056,050	
Taxable Buildings	612,840	938,600	2,373,360	12,744,950	
Taxable Business	160,670	158,810	576,230	2,258,520	
Total Assessment of Non-Right-of-Way Properties	932,570	1,374,350	4,177,140	21,059,520	
Total Tax Assessment	1,051,340	1,571,360	4,692,190	21,585,290	
Percent of Tax Assessment derived from R.O.W. Properties	11.3	12.5	11.0	2.4	

R.O.W. - Right-of-Way.

*Tax assessment of rail roadway property in unincorporated communities is included as part of total rural municipality tax assessments.

^a1971 Annual Assessment Return used.

Source: Saskatchewan Department of Municipal Affairs, Regina.

Carload Rail Traffic

The volume of rail traffic to and from a community is another indicator of economic activity. For a more complete picture, truck traffic should also be considered. In general, the more people and service activities there are in a community, the more freight traffic is generated. Grain shipments at a particular delivery point depend on such interrelated factors as size of hinterland, number of permit holders, crop yields, and domestic and export marketings.

Table 1.11 shows the number of carloads shipped in and out of each delivery point in the study area from 1966 to 1971.¹ The traffic is broken down into five broad categories.

At delivery points that were "too small to classify", railway traffic was light. It was mostly outbound grain and tended to diminish over time.

Hamlets had a greater volume of outbound grain shipments. In 1971, the largest number of carloads, 341, moved from Denholm. There was very little inbound traffic. In most instances, it amounted to only 1 or 2 carloads in a year.

Grain shipments also accounted for most of the outbound rail traffic for villages. With 563 carloads, Holbein had the most outbound traffic in 1971. The few inbound shipments were mostly manufactures and miscellaneous products.

The traffic pattern for towns and greater towns is essentially the same as it is for hamlets and villages; that is, outbound grain is the most important commodity, outbound traffic greatly exceeds inbound traffic, and inbound traffic is made up of a variety of products such as coal, lumber and building supplies, fertilizer, fuel oil, agricultural supplies and machinery. Of course, the traffic volume is greater than it is in smaller centers. In 1971, total carload movements in towns and greater towns ranged from 389 cars at Edam to 1,238 cars at Meadow Lake. The city of North Battleford had more carloads inbound, 1,118, than outbound, 1,059.

¹Carload rail traffic data prior to 1966 were not available.

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Too Small to Classify												
1 Hartwell												
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-
2 Cameo												
Products of Agriculture	-	1	-	8	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	1	-	8	-	-	-	-	-	-	1	-
3 Bournemouth												
Products of Agriculture	-	35	-	29	-	18	-	31	-	22	-	6
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	35	-	29	-	18	-	31	-	22	-	6
4 Dulwich												
Products of Agriculture	-	25	-	6	-	-	-	-	-	1	-	1
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	25	-	6	-	-	-	-	-	1	-	1
5 Clevees												
Products of Agriculture	-	18	-	26	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	18	-	26	-	-	-	-	-	-	-	-

- carloads -

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
6 Ormeaux	-	42	-	23	-	-	-	-	-	-	-	1
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	-	-	-	-	-	-	-	-	-	1
Total	1	42	-	23	-	-	-	-	-	-	-	-
7 Ordale	-	32	-	37	-	29	-	21	-	32	-	11
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	33	-	11
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	32	-	37	-	29	-	21	-	65	-	22
8 Tallman	-	138	-	127	-	95	-	76	-	87	-	91
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	138	-	127	-	95	-	76	-	87	-	91
9 Kilwinning	-	10	-	-	-	-	-	-	-	1	-	2
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	10	-	-	-	-	-	-	-	1	-	2
10 Redberry	-	-	-	-	-	-	-	-	-	-	-	-
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-
	n.a.		n.a.		n.a.		n.a.		n.a.		n.a.	

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
	- carloads -											
11 Scentgrass												
Products of Agriculture	-	17	-	40	-	36	-	33	-	81	-	109
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	1	-	-	-	-	-	-	-	-	-
Products of Forests	2	-	-	-	-	-	-	-	-	-	1	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	3	17	1	40	-	36	-	33	-	81	1	109
12 Polwarth												
Products of Agriculture	-	48	-	59	-	27	-	38	-	44	-	56
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	2	-	-	-	-	-	-	-	-	-
Total	-	48	2	59	-	27	-	38	-	44	-	56
13 Cater												
Products of Agriculture	-	8	-	8	-	-	-	-	-	4	-	9
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	1	-
Total	-	8	-	8	-	-	-	-	-	4	1	9
14 Brada												
Products of Agriculture	-	142	-	134	-	99	-	62	-	98	-	148
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	1	-	1	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	1	-	-	-	-	-	-	-	-	-
Total	2	142	2	134	1	99	-	62	-	98	-	148
15 Lilac												
Products of Agriculture	-	123	-	153	-	103	-	68	-	105	-	157
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	3	-	2	-	2	-	1	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	1	-	-	-	-	-	-	-
Total	3	123	2	153	3	103	1	68	-	105	-	157

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
16 Iffley												
Products of Agriculture	-	34	-	39	-	24	-	18	-	32	-	76
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	1	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	34	1	39	-	24	-	18	-	32	-	76
17 Ranger												
Products of Agriculture	-	38	-	46	-	35	-	27	-	1	-	10
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	1	-	2	-	-	-	-	-	37
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	38	-	47	-	37	-	27	-	1	-	47
Hamlets												
18 Hatherleigh												
Products of Agriculture	-	20	-	27	-	33	-	22	-	21	-	11
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	20	-	27	-	33	-	22	-	21	-	11
19 Redfield												
Products of Agriculture	-	49	-	74	-	69	-	29	-	53	-	61
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	1	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	-	-	1	-	-	-	-	-	-	-
Total	4	49	-	74	2	69	-	29	-	53	-	61
20 Hamlin												
Products of Agriculture	-	157	-	143	-	121	-	43	-	1	-	1
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	2	-	2	-	1	-	2	-
Products of Forests	2	-	1	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	3	-	3	-	3	-	2	-	-	-	-	-
Total	5	157	4	143	5	121	4	43	1	1	2	1

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
21 Crutwell												
Products of Agriculture	-	37	-	27	-	-	-	1	-	10	-	14
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	1	-	-	-	1	-	-
Total	-	37	-	27	-	1	-	1	-	11	-	14
22 Cavalier												
Products of Agriculture	-	151	-	162	-	125	-	114	-	177	-	227
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	3	-	1	-	-	-	-	-	-	-
Total	2	151	3	162	1	125	-	114	-	177	-	227
23 Keatley												
Products of Agriculture	-	177	-	115	-	107	-	91	-	186	-	183
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	2	-	1	-	1	-	1	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	3	-	3	-	2	-	-	-	-	-	1	-
Total	5	177	5	115	3	107	1	91	1	186	2	183
24 Bapaume												
Products of Agriculture	-	85	-	80	-	81	-	74	-	174	-	158
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	1	-	-	-	-	-	-	-
Total	-	85	-	80	1	81	-	74	-	174	-	158
25 Robinhood												
Products of Agriculture	-	81	-	86	-	61	-	63	-	105	-	81
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	4	-	20	-	1	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	81	-	86	-	65	-	83	-	106	-	81

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
26 Fairholme												
Products of Agriculture	-	50	-	67	-	59	-	40	-	84	-	76
Animals and Products	-	-	-	3	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	-	-	-	-	-	-	-	1	-	-
Total	1	50	-	70	-	59	-	40	-	85	-	76
27 Sandwith												
Products of Agriculture	-	-	-	-	-	2	-	26	-	74	-	53
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	1	-
Total	-	-	-	-	-	2	-	26	-	74	1	53
28 Mildred												
Products of Agriculture	-	60	-	58	-	45	-	43	1	92	-	54
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	2	-	1	-	1	-	-	-	-	-
Total	1	60	2	58	1	45	1	43	1	92	-	54
29 Belbutte												
Products of Agriculture	-	57	-	50	-	44	-	24	-	17	-	2
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	2	-	-	-	-	-
Total	-	57	-	50	-	44	2	24	-	17	1	2
30 Prince												
Products of Agriculture	-	191	-	212	-	190	1	140	-	245	-	295
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	2	-	-	-	-	-	2	-	1	-
Total	-	191	2	212	-	190	1	140	2	245	1	295

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
31 Richard												
Products of Agriculture	-	263	-	287	-	215	-	139	-	244	-	337
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	5	-	4	-	3	-	2	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	1	-	1	-	-	-	3	-	2	-
Total	7	263	5	287	4	215	2	139	3	244	2	337
32 Denholm												
Products of Agriculture	-	230	-	264	-	214	-	113	-	261	-	341
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	3	-	1	-	2	-	2	-	2	-	2	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	3	230	1	264	2	214	2	113	2	261	2	341
33 Rudell												
Products of Agriculture	-	83	-	98	-	74	-	49	-	67	-	126
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	1	-	-	-	-	-	-	-	-	-
Total	2	83	1	98	-	74	-	49	-	67	-	126
34 Alticane												
Products of Agriculture	-	79	-	64	-	57	-	37	-	73	-	82
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	1	-	-	-	-	-	-	-	-	-
Total	3	79	1	64	-	57	-	37	-	73	-	82
35 Glenbush (C.N.)												
Products of Agriculture	-	103	-	97	-	73	-	32	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	3	-	2	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	2	-	1	-	1	-	-	-	-	-	2	-
Total	5	103	3	97	1	73	-	32	-	-	2	-

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
35 Glenbush (C.P.)	-	-	-	-	-	-	-	-	-	-	-	-
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	1	-	2	-	2	-	1	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	-	-	-	-	-	-	-	-	-	-
Total	1	-	1	-	2	-	2	-	1	-	-	-
36 Fielding	-	-	-	-	-	-	-	-	-	-	-	-
Products of Agriculture	-	152	-	155	-	103	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	4	-	1	-	2	-	2	-	2	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	4	152	1	155	2	103	2	-	2	-	1	-
37 Mont Nebo	-	-	-	-	-	-	-	-	-	-	-	-
Products of Agriculture	-	85	-	84	-	63	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	1	-	-	-	-	-	-	-
Products of Forests	6	-	3	-	-	3	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-
Total	6	85	3	84	1	66	-	-	-	-	1	-
Villages	-	-	-	-	-	-	-	-	-	-	-	-
38 Whitkow	-	228	-	159	-	91	-	-	-	-	-	-
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	1	-	-	4	-	-	-	-	-	-
Total	-	228	1	159	-	95	-	-	-	-	-	-
39 Mullingar	-	-	-	-	-	-	-	-	-	-	-	-
Products of Agriculture	-	86	-	106	-	55	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	1	-	1	-	-	-	-	-	-	-
Total	1	86	1	106	1	55	-	-	-	-	-	-

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
40 Holbein												
Products of Agriculture	-	418	-	418	-	320	-	306	-	581	-	563
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	12	-	13	-	5	-	4	-	4	-	6	-
Total	12	418	13	418	5	320	4	306	4	581	6	563
41 Parkside												
Products of Agriculture	-	154	-	168	-	109	-	116	-	177	-	172
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	-	-	-	-	-	-	-	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	12	-	4	-	2	-	1	-	1	-	3	-
Total	13	154	4	168	2	109	1	116	1	177	4	172
42 Makwa												
Products of Agriculture												
Animals and Products												
Products of Mines												
Products of Forests												
Manufactures and Misc.												
Total												
Off-line point												
43 Livelong												
Products of Agriculture	-	72	-	87	-	66	-	54	-	124	-	100
Animals and Products	-	2	-	2	-	8	-	-	-	-	-	-
Products of Mines	9	-	4	-	5	-	6	-	4	-	4	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	1	-	1	-	-	-	-	-	-
Total	9	74	4	90	5	75	6	54	4	124	4	100
44 Vawn												
Products of Agriculture												
Animals and Products												
Products of Mines												
Products of Forests												
Manufactures and Misc.												
Total												
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
45 Krydor												
Products of Agriculture	-	242	-	207	-	205	-	172	-	201	-	278
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	3	-	3	-	-	-	2	-	2	-	1	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	1	1	-	-	-	-	-
Total	3	242	3	207	-	206	3	172	2	201	1	278
46 Medstead												
Products of Agriculture	-	-	-	1	-	-	-	49	-	167	-	158
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	-	-	2	-	-	-	-	-	-	-
Total	1	-	-	1	2	-	-	49	-	167	-	158
47 Speers												
Products of Agriculture	-	217	-	227	-	145	-	112	-	242	-	391
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	1	-	-	-	-	-	-	-
Manufactures and Misc.	60	-	55	-	54	-	34	-	52	1	25	-
Total	61	217	55	227	55	145	34	112	52	243	25	391
48 Mayfair												
Products of Agriculture	-	133	-	139	-	65	-	83	-	151	-	169
Animals and Products	-	-	-	1	-	-	-	-	-	-	-	-
Products of Mines	1	-	1	-	-	-	-	-	-	-	-	-
Products of Forests	1	-	6	-	1	-	-	-	-	-	-	-
Manufactures and Misc.	41	-	28	1	16	2	3	-	1	-	3	-
Total	43	133	35	141	17	67	3	83	1	151	3	169
49 Maymont												
Products of Agriculture	-	193	-	234	-	187	-	99	-	175	-	278
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	4	-	3	-	2	-	1	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	4	1	3	-	2	-	2	2	-	1	-	1
Total	8	194	6	234	4	187	3	101	-	176	-	279

- carloads -

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
50 Mervin												
Products of Agriculture	-	162	-	190	-	139	-	137	-	207	-	211
Animals and Products	-	3	-	-	-	-	-	-	-	-	-	-
Products of Mines	11	-	8	-	7	-	7	-	7	-	7	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	67	-	65	-	45	-	26	-	7	-	4	-
Total	78	165	73	190	52	139	33	137	14	207	11	211
51 Meota												
Products of Agriculture	-	125	-	134	-	90	-	52	-	121	-	142
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	10	-	7	-	6	-	6	-	4	-	3	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	67	-	66	-	64	1	75	-	72	-	6	-
Total	77	125	73	134	70	91	81	52	76	121	9	142
52 Shell Lake												
Products of Agriculture	-	142	-	152	-	121	-	129	-	216	-	143
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	6	-	4	-	5	-	5	-	4	-	2	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	42	-	32	-	34	2	35	-	30	-	38	-
Total	48	142	36	152	39	123	40	129	34	216	40	143
53 Rabbit Lake												
Products of Agriculture	-	165	-	247	-	173	-	179	-	367	-	393
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	8	-	8	-	4	-	5	-	5	-	3	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	5	-	9	-	-	-	7	-	4	-	10	-
Total	13	165	17	247	4	173	12	179	9	367	13	393
54 Marcelin												
Products of Agriculture	-	310	-	256	-	250	-	200	-	311	-	386
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	8	-	6	-	3	-	2	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	5	-	7	-	6	2	4	1	5	-	4	-
Total	13	310	13	256	9	252	6	201	5	311	4	386

See footnotes at end of table

(continued)

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
<i>Towns</i>	- carloads -											
55 Debdon												
Products of Agriculture	-	257	-	289	-	259	-	207	-	327	-	363
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	5	-	2	-	-	-	1	-	3	-	-	-
Products of Forests	-	-	-	-	7	-	-	-	-	-	-	-
Manufactures and Misc.	92	-	93	-	66	-	59	-	68	3	25	2
Total	97	257	95	289	73	269	60	207	71	330	25	365
56 Leoville												
Products of Agriculture	-	183	-	202	-	148	-	95	-	240	-	177
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	12	-	7	-	7	-	8	-	5	-	4	-
Products of Forests	-	1	-	-	-	3	11	10	-	131	-	282
Manufactures and Misc.	65	-	66	-	61	-	65	6	69	2	72	6
Total	77	184	73	202	68	151	94	111	74	373	76	465
57 Borden												
Products of Agriculture	-	356	-	355	-	346	-	173	-	297	-	521
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	12	-	11	-	10	-	10	-	7	-	7	-
Products of Forests	-	-	1	-	5	-	2	-	1	-	2	-
Manufactures and Misc.	7	-	4	-	5	-	4	-	2	-	2	-
Total	19	356	16	355	20	346	16	173	10	297	11	521
58 Edam												
Products of Agriculture	-	246	-	285	-	210	-	227	-	343	-	360
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	12	-	6	-	3	-	5	-	3	-	2	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	55	-	60	-	43	-	50	-	51	-	27	-
Total	67	246	66	285	46	210	55	227	54	343	29	360
59 Radisson												
Products of Agriculture	-	298	-	320	-	247	-	186	-	259	-	360
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	23	-	19	-	12	-	15	-	9	-	7	-
Products of Forests	3	-	3	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	114	-	103	-	93	-	86	2	71	1	80	1
Total	140	298	125	320	105	247	101	188	80	260	87	361

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
60 Canwood												
Products of Agriculture	-	496	-	444	-	390	-	363	-	593	-	609
Animals and Products	-	1	-	-	-	-	-	-	-	-	-	-
Products of Mines	21	-	17	-	13	-	11	-	10	-	8	-
Products of Forests	1	13	1	4	-	-	-	-	-	-	-	-
Manufactures and Misc.	85	-	80	-	77	-	56	-	49	1	56	-
Total	107	510	98	448	90	390	67	363	59	594	64	609
61 Glaslyn												
Products of Agriculture	-	242	-	214	-	170	-	162	-	315	-	276
Animals and Products	-	-	-	3	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	3	-	-	4	-
Manufactures and Misc.	142	1	112	-	127	1	109	1	71	1	25	1
Total	142	243	112	217	127	171	109	166	71	316	29	277
62 Hafford												
Products of Agriculture	-	311	-	370	-	303	-	267	-	365	-	472
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	11	-	9	-	9	-	8	-	6	-	9	-
Products of Forests	5	-	4	-	1	-	1	-	-	-	3	-
Manufactures and Misc.	110	-	98	-	77	-	33	-	35	-	7	-
Total	126	311	111	370	87	303	42	267	41	365	19	472
63 Big River												
Products of Agriculture	11	47	17	51	9	43	11	31	8	52	14	59
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	4	-	4	-	4	-	6	-	1	-	4	-
Products of Forests	-	243	-	311	-	534	-	223	1	269	1	445
Manufactures and Misc.	139	-	153	-	147	-	167	-	142	5	148	7
Total	154	290	174	362	160	577	184	254	152	326	167	511
64 Turtleford												
Products of Agriculture	4	186	4	289	-	195	-	202	-	406	-	373
Animals and Products	-	58	-	81	-	86	-	84	-	77	-	71
Products of Mines	22	-	13	-	13	-	8	-	8	-	6	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	129	-	101	-	96	1	97	-	101	1	47	-
Total	155	244	118	370	109	282	105	286	109	484	53	444

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (continued)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
65 Leask												
Products of Agriculture	-	469	-	537	-	406	-	362	-	606	-	610
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	15	-	8	-	4	-	1	-	-	-	-	-
Products of Forests	2	-	-	-	3	-	-	-	-	-	-	-
Manufactures and Misc.	82	-	72	-	52	3	37	1	24	-	44	-
Total	99	469	80	537	59	409	38	363	24	606	44	610
Greater Towns												
66 Spiritwood												
Products of Agriculture	-	334	-	339	-	264	-	257	-	553	-	360
Animals and Products	-	1	-	8	-	12	-	3	-	-	-	-
Products of Mines	10	-	5	-	3	-	4	-	4	-	3	-
Products of Forests	3	-	3	-	4	-	-	-	1	-	5	-
Manufactures and Misc.	161	-	162	-	86	-	96	-	88	-	93	-
Total	174	335	170	347	93	276	100	260	93	553	101	360
67 Shellbrook												
Products of Agriculture	-	490	-	451	-	379	-	311	-	551	-	502
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	74	-	54	-	40	-	39	-	30	-	31	-
Products of Forests	5	-	3	-	1	-	8	-	1	-	-	-
Manufactures and Misc.	107	3	115	1	87	2	96	1	69	2	80	3
Total	186	493	172	452	128	381	143	312	100	553	111	505
68 Meadow Lake												
Products of Agriculture	12	1,005	10	885	5	681	3	851	5	1,212	2	818
Animals and Products	-	26	1	25	-	28	-	9	-	12	-	1
Products of Mines	42	-	30	-	25	-	25	-	23	1	20	-
Products of Forests	10	111	13	109	10	136	2	41	9	151	10	149
Manufactures and Misc.	383	6	308	4	280	2	327	9	334	2	232	6
Total	447	1,148	362	1,023	320	847	357	910	371	1,378	264	974

- carloads -

(continued)

See footnotes at end of table

TABLE 1.11 REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1966 TO 1971 (concluded)

Delivery Point	1966		1967		1968		1969		1970		1971	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -												
<i>Cities</i>												
69 North Battleford (C.N.)												
Products of Agriculture	92	292	77	309	44	292	44	217	431	28	632	
Animals and Products	-	481	2	476	9	372	44	373	340	48	237	
Products of Mines	12	-	10	-	26	-	18	-	-	4	-	
Products of Forests	20	-	22	-	16	-	37	-	-	49	-	
Manufactures and Misc.	913	119	831	160	742	150	747	149	175	773	186	
Total	1,037	892	942	945	837	814	890	739	946	902	1,055	
69 North Battleford (C.P.)												
Products of Agriculture	29	5	20	20	16	13	8	10	-	5	-	
Animals and Products	-	45	-	7	-	3	-	-	6	-	2	
Products of Mines	2	2	4	2	2	1	7	1	1	4	-	
Products of Forests	49	-	51	-	47	-	51	-	-	39	-	
Manufactures and Misc.	266	1	264	13	222	1	217	2	5	108	2	
Total	346	53	339	42	287	18	283	13	12	156	4	

Products of Agriculture - All grains, seeds, flour, hay and straw, fruits and vegetables, etc.
 Animals and Products - All livestock, poultry, meats, fish, dairy products, etc.
 Products of Mines - Coal, mineral ores and concentrates, cement, brick, asphalt, etc.
 Products of Forests - Logs, lumber, all processed natural wood, plywood, shingles, pulpwood, etc.
 Manufactures and Miscellaneous - Petroleum products, chemicals, fertilizer, machinery and parts, vehicles, furniture, food and feed products, wood pulp, newsprint paper, etc.

n.a. - Not available.

Source: Canadian National Railways, Freight Sales, Winnipeg, Manitoba.
 Canadian Pacific Railways, Department of Research, Montreal, Quebec.

Railway Freight Density

For purposes of internal management, the railway companies keep detailed records of the tonnage of revenue freight on every mile of track each year. Figure 1.2 shows this information for 1968 on a railway network map of northern Saskatchewan that includes the Shellbrook-Turtleford study area.

The data in Figure 1.2 is expressed in thousands of net tons of freight per mile of line and the map indicates where traffic is heavy and where it is light. Some transport authorities measure the profitability of lines by their traffic density or by the traffic they generate. These measurements, however, do not consider the nature of the traffic or the rates charged. Despite the shortcomings of using such methods, the map in Figure 1.2 is coded to show lower density lines where the freight was less than 100,000 net tons per mile of road and higher density lines where the freight was more than 100,000 net tons per mile of road in 1968.

The traffic density in the study area in 1968 ranged from 7,000 net tons on the Whitkow subdivision to 894,000 net tons on the Langham subdivision. All subdivisions in the region were defined as light density lines except the Langham subdivision, the Battleford subdivision and part of the Big River subdivision.

In general, it may be said that three kinds of rail line operations exist; namely, those that are profitable, those that are unprofitable and those that are not clearly profitable or unprofitable. In the United States, the Federal Railroad Administration is attempting to establish "automatic" minimum, quantifiable standards for determining unprofitability and, therefore, abandonment. One such proposed standard is the 34-car rule which essentially states that a rail line is uneconomic if it carries less than 34 carloads of freight per mile of track each year. This rule, like the measurement of traffic density, does not take into account the nature of the freight carried or the revenue earned.

Highway Transportation Services

Truck traffic data similar to railway carload traffic showing volume of traffic to and from each community was not available. Most communities are, however, served by one or more trucking companies. The names of for-hire common and contract carriers serving each center are listed in Table 1.12. Excluded from this list are, of course, farm trucks as well as private urban and private intercity truckers.

Several communities "too small to classify" and hamlets, as well as the village of Livelong, have no trucking service. Twenty-three points are served by only one carrier. North Battleford, being a larger center, is served by 9 for-hire carriers.

TABLE 1.12 TRUCK SERVICES BY COMMUNITY, 1972

	For-Hire Carriers													
	Ray's Trans- port Ltd.	Canadian National Trans- port	Dawson Trans- port Ltd.	Henry's Trans- port	Soo- Motor- ways Ltd.	North Central Express- way Ltd.	Central Trans- port	Harvey's Trans- port	Lay's Trans- port	Eppen's Trans- port	McKay's Trans- port	Hub City Express Ltd.	Boyd Bagnall Trans- port	Sask. Transpor- tation Co.
<i>Too Small to Classify</i>														
7 Ordale			X											
8 Tallman	X	X												
9 Killwinning	X						X							
12 Polwarth			X											
13 Cater				X										
14 Brada					X									
16 Iffley				X										
<i>Hamlets</i>														
24 Bapaume				X										
25 Robinhood				X										
27 Sandwith				X										
28 Mildred	X		X											
29 Belbutte				X										
30 Prince		X												
31 Richard	X													
32 Derholm					X									
33 Ruddell		X			X	X								
34 Alticane						X								
35 Glenbush				X										X
36 Fielding		X			X									
37 Mont Nebo	X		X											
<i>Villages</i>														
38 Whitkow								X						
39 Mullindar								X						
40 Holbein														X
41 Parkside	X						X		X					X
42 Nakwa														
43 Livelong														
44 Yawn		X												X
45 Krydor	X	X												
46 Medstead				X										
47 Speers	X					X								
48 Mayfair						X		X						
49 Maymont		X			X	X								
50 Mervin		X												X
51 Neota														X
52 Shell Lake	X		X											X
53 Rabbit Lake														
54 Marcelin	X	X				X								X
<i>Towns</i>														
55 Debben			X											X
56 Leoville			X											X
57 Borden		X			X	X								X
58 Edam														X
59 Radisson		X			X	X								X
60 Canwood	X		X											X
61 Glaslyn						X								X
62 Harford	X													X
63 Big River			X											X
64 Turtleford	X	X					X							X
65 Leask														X
<i>Greater Towns</i>														
66 Spiritwood	X		X	X										X
67 Shellbrook	X								X					X
68 Meadow Lake														
<i>Cities</i>														
69 North Battleford	X	X		X	X					X	X	X	X	X

Source: Saskatchewan Shippers' Directory, 1972.

PART II

GRAIN PRODUCTION CHARACTERISTICS

Physical Features and Soil Capability for Agriculture¹

The study area encompasses about four million acres of farmland within parts of the Saskatchewan Plains and the Alberta High Plains physiographic regions that are also respectively known as the Second Prairie Steppe and the Third Prairie Steppe. The area within the Second Prairie Steppe includes the Beaver River Plains around Meadow Lake and that portion of the Saskatchewan Rivers Plain lying along the North Saskatchewan River. These plains have elevations ranging from 1,500 feet above sea level along the North Saskatchewan River to about 1,750 feet near Debden. The rise from the Second Prairie Steppe to the Third Prairie Steppe is marked by the Missouri Couteau, which consists primarily of the Thickwood Hills but also includes the Whitewood Hills near North Battleford and the Leoville Hills at Leoville. The greatest elevation, 2,450 feet above sea level, occurs in the Thickwood Hills in the vicinity of Rabbit Lake.

While much of the study area is internally drained into shallow lakes and bogs, external drainage is provided by the North Saskatchewan, Beaver, Sturgeon, Shellbrook and Big Rivers and their tributaries.

The region encompasses parts of the Black, Grey and Transition (degraded Black) soil zones that have a capability for agriculture ranging from Class 2 to Class 4. A few small areas, such as the one at Shellbrook, are Class 1; however, the rest of the soils are usually downgraded because of excessive slope, insufficient capacity to hold water or some other topographic limitation.

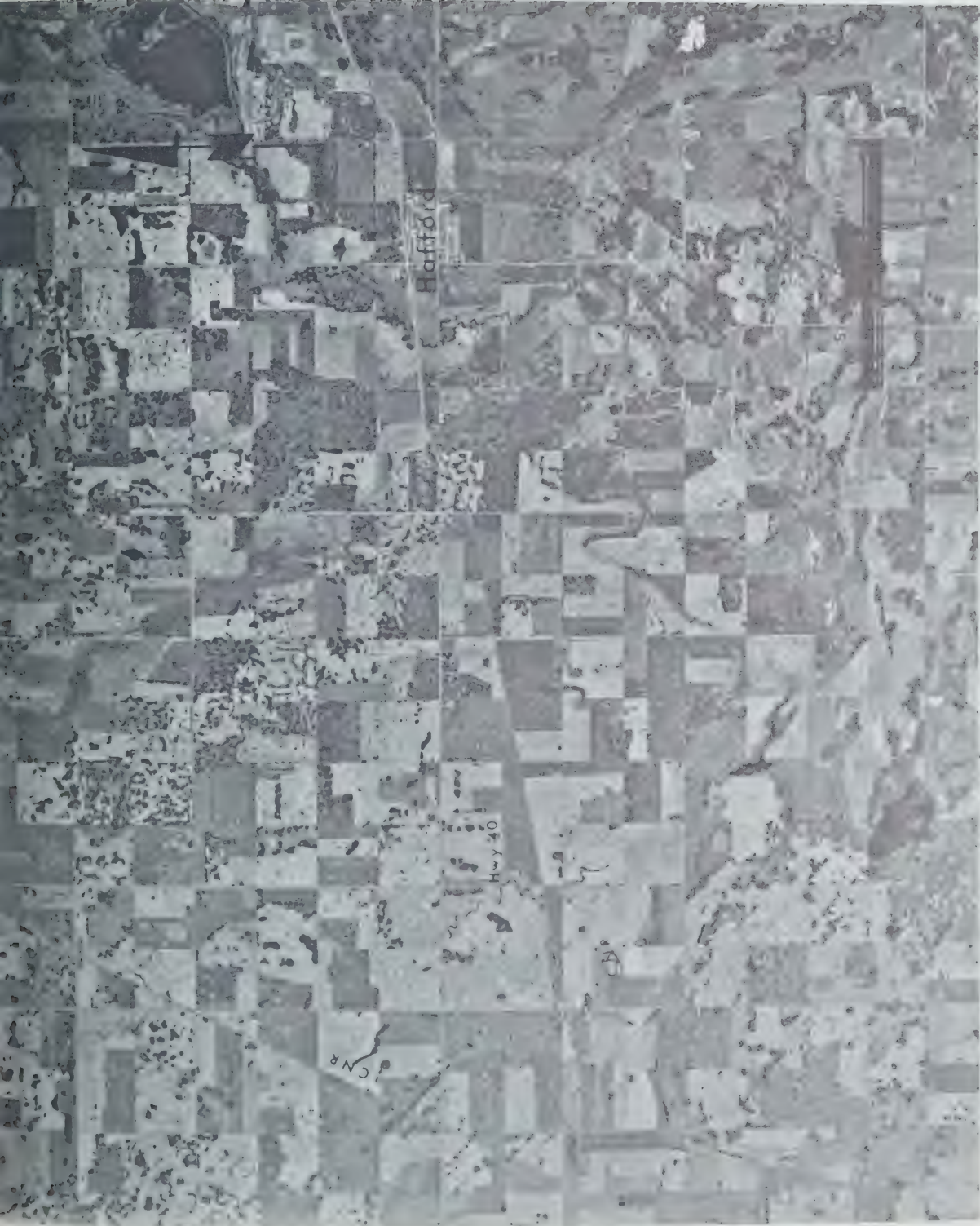
¹For a more detailed description of topography and soil capability in the region, see J. Mitchell and others, Saskatchewan Soil Survey Reports No. 12 and No. 13, Saskatoon, University of Saskatchewan, 1944 and 1950; J.H. Richards and K.I. Fung, Atlas of Saskatchewan, Saskatoon, University of Saskatchewan, 1969; and Canada Land Inventory Soil Capability for Agriculture sheet maps for Saskatchewan.

Sample Aerial Photos

Figures 2.1, 2.2, 2.3 and 2.4 are aerial photographs of selected localities in the Shellbrook-Turtleford study region that were taken in 1970 by the Prairie Farm Assistance Administration and used by that agency in its association with Operation LIFT. Communities, railroads and highways are identified on the figures, which have been included in the study simply to show the kind of aerial photos that are available for the entire prairie region. Their scale is such that approximately 0.8 of an inch equals 1.0 mile.

Twp 44

Twp 43



Twp 44

Twp 43

Page 10

Page 11

AERIAL VIEW OF HAFFORD AREA

Figure 2.1

Rge 13

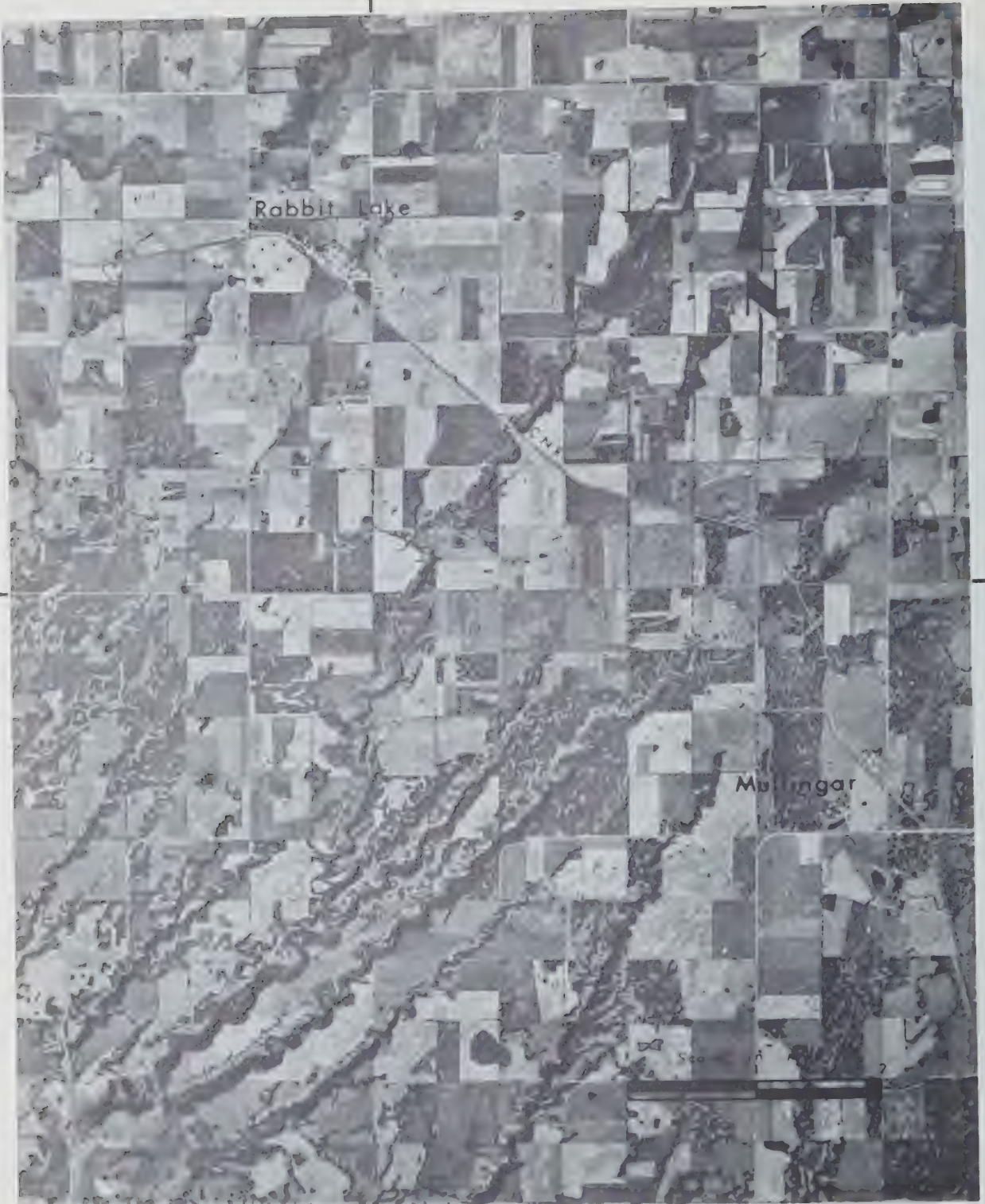
Rge 12

Twp 48

Twp

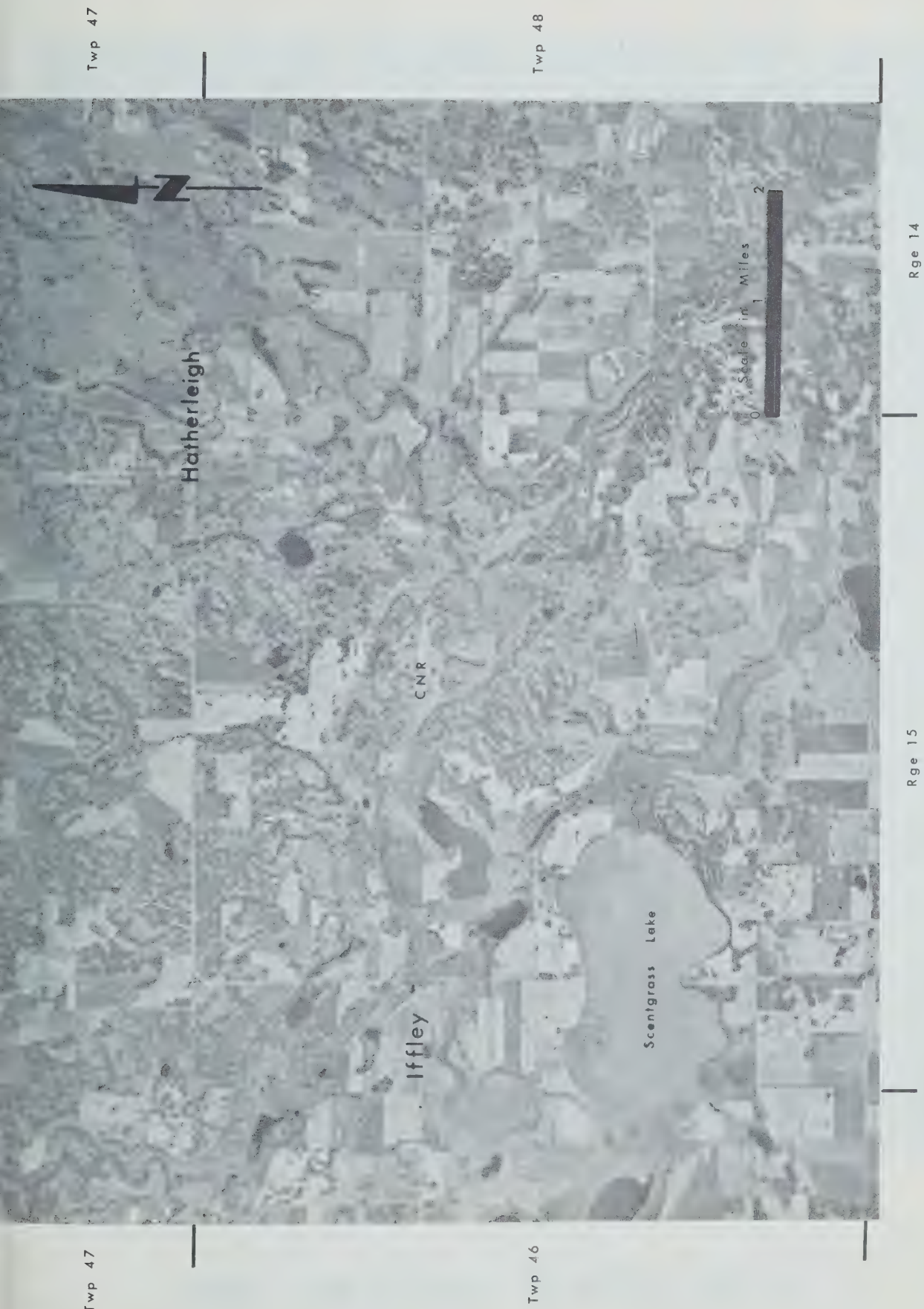
Twp 47

Twp



AERIAL VIEW OF RABBIT LAKE AREA

Figure 2.2

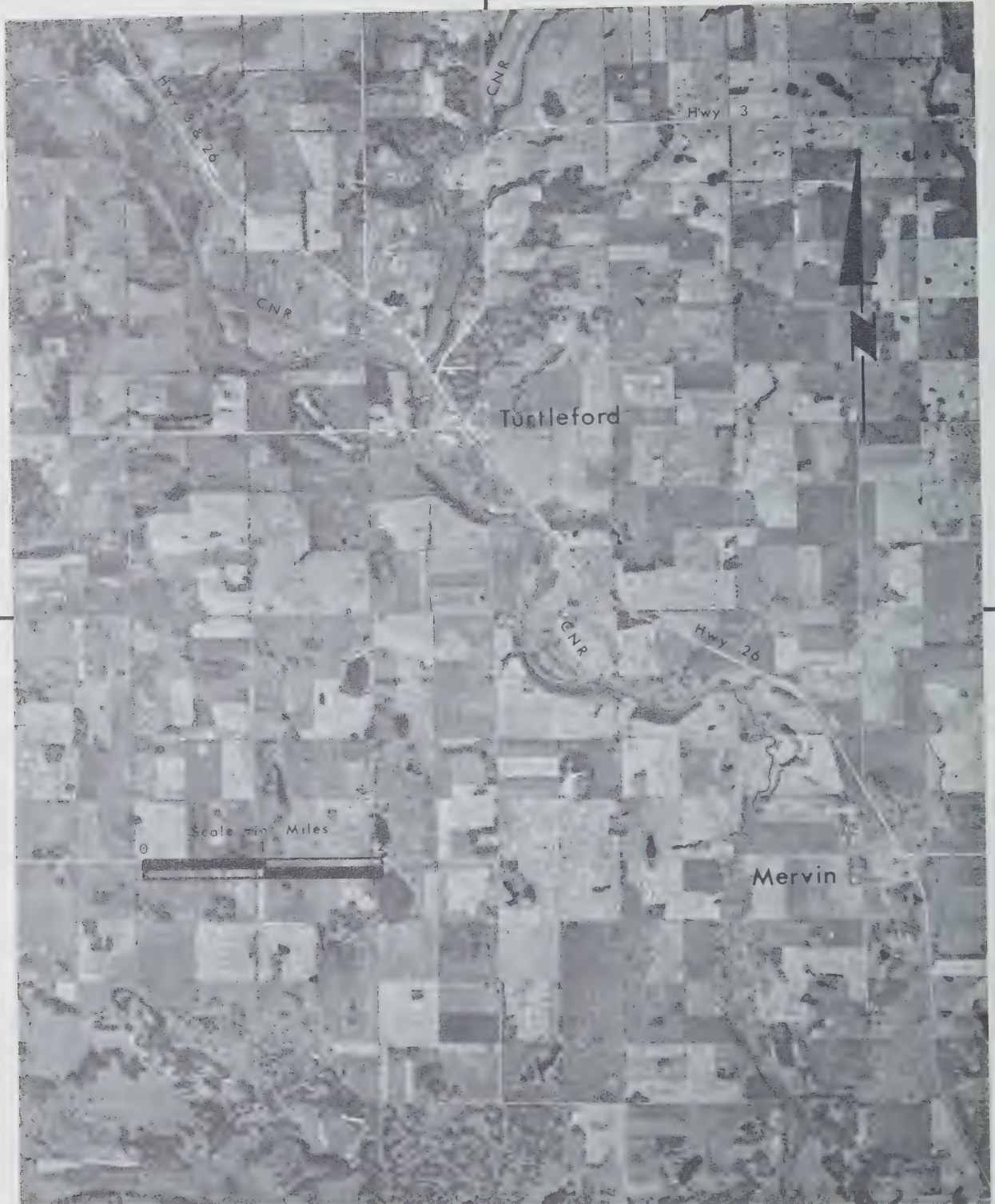


AERIAL VIEW OF HATHERLEIGH - IFFLEY AREA

Figure 2.3

Rge 21

Rge 20



AERIAL VIEW OF TURTLEFORD AREA

Figure 2.4

Temperature Norms and Extremes

Temperature norms and extremes for four weather reporting stations are shown in Table 2.1. The data gives a good indication of temperatures within the study area.

July mean daily temperatures range from 61.0°F at Rabbit Lake to 65.7°F at North Battleford. The same temperature readings in January range from -0.3°F at North Battleford to -2.7°F at Rabbit Lake. North Battleford and Spiritwood recorded the highest temperature of 103°F in the month of July. Rabbit Lake recorded the lowest reading, -64°F, in January.

In general the climate is continental with wide variations in day and night temperatures and in seasonal temperatures. There are resultant climatic limitations for the growing of crops in some parts of the region. The Saskatchewan Rivers Plain portion of the study region has little or no significant limitation. The annual growing season is 158-168 days of which 90-100 days usually make up the average frost-free period. The accumulative number of degree-days ranges from 2,250 to 2,500.¹ The Thickwood Hills and the Beaver River Plains are characterized by a shorter, cooler growing season with an average of 148-158 days. The average frost-free period is only 70-80 days. The number of degree-days varies from 1,750-2,250 but averages well below 2,000.

Precipitation

Table 2.2 shows monthly and annual precipitation averages in terms of rainfall, snowfall and total precipitation for the meteorological stations of North Battleford, Rabbit Lake, Spiritwood and Turtleford. Data is also given for Parkside where the experimental farm records precipitation throughout the year. The annual average precipitation ranges from 13.7 inches at North Battleford to 16.3 inches at Rabbit Lake. In the five-month period from May to September, the stations receive from 63 to 70 percent of their annual precipitation. Most of this takes place in July except at Parkside. There the greatest amount falls in June. Approximately 72 percent of annual precipitation is in the form of rain.

¹The amount of effective heat available to plants is sometimes expressed in terms of "growing degree-days" or "degree-days". Degree-days are most commonly calculated from a base temperature of 42°F which is near the threshold of growth for a number of common crops. One growing degree-day results from each degree that the mean temperature for the day is above 42°F. No degree-days are counted when the mean temperature is equal to or below 42°F.

TABLE 2.1 TEMPERATURE NORMS AND EXTREMES FOR SPECIFIED METEOROLOGICAL STATIONS

Meteorological Station	January	February	March	April	May	June	July	August	September	October	November	December	Year
						- degrees Fahrenheit -							
North Battleford													
Mean Daily Maximum ^a	8.6	14.3	26.5	48.6	64.6	70.6	78.3	75.3	64.3	51.6	29.1	15.5	45.6
Mean Daily Minimum ^a	-9.1	-5.2	7.8	27.1	39.6	47.2	53.0	49.7	40.5	29.6	13.0	-1.2	24.3
Mean Daily Temperature ^a	-0.3	4.6	17.2	37.9	52.1	58.9	65.7	62.5	52.4	40.6	21.1	7.2	35.0
Maximum Temperature ^b	52	53	75	94	101	101	103	100	96	87	69	55	103
Minimum Temperature ^b	-61	-56	-42	-18	10	24	32	29	12	-19	-40	-46	-61
Rabbit Lake													
Mean Daily Maximum ^a	7.4	14.3	25.6	45.5	62.6	68.5	75.4	73.0	61.9	49.0	26.6	13.3	43.6
Mean Daily Minimum ^a	-12.7	-8.9	2.2	22.3	34.9	41.4	46.6	43.5	34.9	25.3	9.5	-4.4	19.6
Mean Daily Temperature ^a	-2.7	2.7	13.9	33.9	48.8	55.0	61.0	58.3	48.4	37.2	18.1	4.5	31.6
Maximum Temperature ^c	56	54	58	89	97	99	98	97	90	90	68	52	99
Minimum Temperature ^c	-64	-58	-44	-29	8	19	24	17	8	-12	-35	-51	-64
Spiritwood													
Mean Daily Maximum ^a	10.3	15.9	27.5	47.3	64.5	70.2	76.8	74.2	63.7	51.2	29.3	17.2	45.7
Mean Daily Minimum ^a	-13.9	-9.3	2.8	22.9	35.0	41.8	47.4	44.4	36.1	26.5	10.6	-4.7	20.0
Mean Daily Temperature ^a	-1.8	3.3	15.2	35.1	49.8	56.0	62.2	59.3	49.9	38.9	20.0	6.3	32.9
Maximum Temperature ^d	52	52	58	91	100	98	103	98	92	89	66	55	103
Minimum Temperature ^d	-62	-55	-51	-25	10	23	26	18	6	-5	-39	-51	-62
Turtleford													
Mean Daily Maximum ^e	10.1	15.5	26.9	47.8	63.8	69.6	76.4	72.9	62.8	50.6	28.5	15.7	45.1
Mean Daily Minimum ^e	-12.6	-7.8	3.7	23.9	36.0	42.3	47.1	43.9	36.0	25.4	9.4	-5.6	20.1
Mean Daily Temperature ^e	-1.3	3.9	15.3	35.9	49.9	56.0	61.8	58.4	49.4	38.0	19.0	5.1	32.6
Maximum Temperature ^d	45	49	68	89	98	101	101	96	88	86	68	49	101
Minimum Temperature ^d	-60	-56	-48	-26	10	22	29	20	9	-8	-39	-50	-60

^aNormals were computed directly from a period of record of 25 to 30 years within the period 1931-1960. In most cases the record existed over the full 30 years.

^bExtremes are for 60-69 years.

^cExtremes are for 30-39 years.

^dExtremes are for 40-49 years.

^eSame as Footnote a but less confidence was placed in the data.

Source: Temperature and Precipitation Tables for Prairie Provinces, Vol. III, Canada Department of Transport, Meteorological Branch, Toronto, Ontario, 1967.

TABLE 2.2 MONTHLY AND ANNUAL AVERAGE PRECIPITATION FOR SPECIFIED METEOROLOGICAL STATIONS

Meteorological Station	January	February	March	April	May	June	July	August	September	October	November	December	Year
	- inches -												
North Battleford													
Mean Rainfall ^a	0.03	0.01	0.02	0.47	1.28	2.20	2.24	1.71	1.11	0.63	0.12	0.01	9.83
Mean Snowfall ^a	6.3	5.2	5.6	3.6	0.4	0.0	0.0	0.0	0.4	3.0	6.2	8.1	38.8
Mean Total Precipitation ^b	0.66	0.53	0.58	0.83	1.32	2.20	2.24	1.7	1.15	0.93	0.74	0.82	13.71
Parkside													
Mean Rainfall ^c	0.00	0.00	0.02	0.44	1.55	3.03	2.20	1.91	1.68	0.39	0.12	0.00	11.34
Mean Snowfall ^c	4.8	3.3	7.9	3.9	1.6	0.0	0.0	0.0	0.4	4.1	5.4	6.2	37.6
Mean Total Precipitation ^b	0.48	0.33	0.81	0.83	1.71	3.03	2.20	1.91	1.72	0.80	0.66	0.62	15.10
Rabbit Lake													
Mean Rainfall ^d	0.00	0.00	0.03	0.42	1.31	2.72	2.77	2.19	1.47	0.58	0.07	0.04	11.60
Mean Snowfall ^d	7.8	5.5	7.1	5.6	1.0	0.0	0.0	0.0	1.0	3.4	7.3	8.2	46.9
Mean Total Precipitation ^b	0.78	0.55	0.74	0.98	1.41	2.72	2.77	2.19	1.57	0.92	0.80	0.86	16.29
Spiritwood													
Mean Rainfall ^d	0.00	0.00	0.02	0.31	1.11	2.22	2.31	2.10	1.23	0.41	0.10	0.01	9.82
Mean Snowfall ^d	5.7	4.3	7.0	5.5	0.5	0.0	0.0	0.0	0.7	3.1	6.3	8.3	41.4
Mean Total Precipitation ^b	0.57	0.43	0.72	0.86	1.16	2.22	2.31	2.10	1.30	0.72	0.73	0.84	13.96
Turtleford													
Mean Rainfall ^d	0.00	0.00	0.03	0.46	1.26	2.25	2.72	2.50	1.08	0.59	0.03	0.00	10.92
Mean Snowfall ^d	7.6	6.3	8.1	4.7	0.4	0.0	0.0	0.0	0.5	3.4	7.9	10.0	48.9
Mean Total Precipitation ^b	0.76	0.63	0.84	0.93	1.30	2.25	2.72	2.50	1.13	0.93	0.82	1.00	15.81

^aNorms are based on the full 30-year period from 1931-1960.^bTotal precipitation measured in inches of rain. Ten inches of snow equal one inch of rain.^cThese averages are based on the period of record of 10-24 years during the period 1931-1960. No adjustment factor has been used.^dNorms were computed directly from a period of record of 25 to 30 years within the period 1931-1960. In most cases the record existed over the full 30 years.

Source: Temperature and Precipitation Tables for Prairie Provinces, Vol. III, Canada Department of Transport, Meteorological Branch, Toronto, Ontario, 1967.

Hail Insurance

Table 2.3 contains information obtained from the Saskatchewan Municipal Hail Association regarding number of claims filed, acres insured and acres on which damage was claimed by municipalities in the Shellbrook-Turtleford region. Over the ten-year period from 1962 to 1971, an average of 118,373 acres was insured each year. Claims for crop damage on insured acres ranged from 0.5 percent in the municipality of Meeting Lake to 17.4 percent in the municipality of Round Hill. For the study area, claims for crop damage in the same period averaged 9,560 acres or 8.1 percent of insured acres, and the percentage of insured acres for which damage was claimed each year ranged from a low of 0.7 percent to a high of 18.0 percent. On the average, each of the municipalities of Blaine Lake, Meeting Lake, Round Hill, Shellbrook, Medstead and Parkdale had less than one claim a year.

TABLE 2.3 SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED, ACRES INSURED AND ACRES ON WHICH DAMAGE CLAIMED IN THE STUDY AREA, 1962 TO 1971

Rural Municipality	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	Avg./Yr.
405. Great Bend											
No. of Claims Filed	0	53	1	1	12	50	4	0	0	6	12.7
Acres Insured	20,399	21,507	21,769	21,384	23,794	22,727	24,563	23,966	17,385	23,908	22,140
Acres on Which Damage Claimed	0	8,590	60	310	2,310	8,226	535	0	0	773	2,080
Percent	0	40.0	0.3	1.4	9.7	36.2	2.2	0	0	3.2	9.4
406. Mayfield											
No. of Claims Filed	1	27	8	13	1	28	0	0	0	0	7.8
Acres Insured	16,507	18,792	19,270	19,695	21,835	20,283	19,458	18,802	11,088	17,761	18,349
Acres on Which Damage Claimed	293	3,583	1,407	2,870	90	4,762	0	0	0	0	1,301
Percent	1.8	19.1	7.3	14.6	0.4	23.5	0	0	0	0	7.1
434. Blaine Lake											
No. of Claims Filed	0	0	0	0	1	0	1	1	1	2	0.6
Acres Insured	1,255	0	182	324	215	279	2,081	2,801	1,993	2,237	1,137
Acres on Which Damage Claimed	0	0	0	0	215	0	230	25	301	660	143
Percent	0	0	0	0	100.0	0	11.1	0.9	15.1	29.5	12.6
435. Redberry											
No. of Claims Filed	0	2	0	1	14	3	0	0	9	3	3.2
Acres Insured	1,306	2,103	2,432	2,829	5,497	4,595	5,925	5,219	3,886	4,679	3,847
Acres on Which Damage Claimed	0	299	0	250	1,953	513	0	0	1,141	185	434
Percent	0	14.2	0	8.8	35.5	11.2	0	0	29.4	4.0	11.3
436. Douglas											
No. of Claims Filed	0	5	3	7	24	0	1	1	0	16	5.7
Acres Insured	2,983	9,921	10,398	9,826	13,225	13,178	13,281	13,493	10,009	15,725	11,204
Acres on Which Damage Claimed	0	885	436	1,325	4,557	0	340	135	0	4,269	1,195
Percent	0	8.9	4.2	13.5	34.5	0	2.6	1.0	0	27.1	10.7
437. North Battleford											
No. of Claims Filed	1	7	5	37	39	4	0	0	0	3	9.6
Acres Insured	26,858	27,403	29,624	29,675	30,187	28,919	28,731	28,332	21,417	29,971	28,112
Acres on Which Damage Claimed	268	1,093	288	7,597	6,142	794	0	0	0	265	1,645
Percent	1.0	4.0	1.0	25.6	20.3	2.7	0	0	0	0.9	5.9
464. Leask											
No. of Claims Filed	0	4	3	1	0	0	0	0	2	2	1.2
Acres Insured	410	2,017	2,114	3,656	3,301	3,785	5,346	4,537	3,576	3,842	3,258
Acres on Which Damage Claimed	0	409	594	285	0	0	0	0	400	410	210
Percent	0	20.3	28.1	7.8	0	0	0	0	11.2	10.7	6.4

(continued)

TABLE 2.3 SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED, ACRES INSURED AND ACRES ON WHICH DAMAGE CLAIMED IN THE STUDY AREA, 1962 TO 1971 (continued)

Rural Municipality	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	Avg./Yr.
466. Meeting Lake											
No. of Claims Filed	0	0	0	0	0	0	0	0	1	0	0.1
Acres Insured	226	0	0	0	0	635	2,129	1,724	1,890	1,025	763
Acres on Which Damage Claimed	0	0	0	0	0	0	0	0	35	0	4
Percent	0	0	0	0	0	0	0	0	1.9	0	0.5
467. Round Hill											
No. of Claims Filed	0	0	0	0	0	0	0	0	2	1	0.3
Acres Insured	0	0	0	0	0	0	979	504	564	453	250
Acres on Which Damage Claimed	0	0	0	0	0	0	0	0	223	211	43
Percent	0	0	0	0	0	0	0	0	39.5	46.6	17.4
468. Meota											
No. of Claims Filed	0	0	1	6	5	1	0	0	0	0	1.3
Acres Insured	3,345	2,170	2,384	3,164	2,254	2,949	3,284	3,885	2,720	3,122	2,928
Acres on Which Damage Claimed	0	0	200	1,232	959	233	0	0	0	0	262
Percent	0	0	8.4	38.9	42.5	7.9	0	0	0	0	9.0
469. Turtle River											
No. of Claims Filed	0	22	9	17	14	0	0	6	1	4	7.3
Acres Insured	8,054	10,913	12,143	12,493	13,372	13,340	12,671	12,905	10,020	12,563	11,847
Acres on Which Damage Claimed	0	2,364	1,735	2,735	3,118	0	0	396	140	813	1,130
Percent	0	21.7	14.3	21.9	23.3	0	0	3.1	1.4	6.5	9.5
493. Shellbrook											
No. of Claims Filed	0	0	0	0	0	1	0	0	0	0	0.1
Acres Insured	62	0	40	120	107	594	696	708	624	863	381
Acres on Which Damage Claimed	0	0	0	0	0	80	0	0	0	0	8
Percent	0	0	0	0	0	13.5	0	0	0	0	2.1
494. Canwood											
No. of Claims Filed	0	0	0	6	0	0	1	0	0	5	1.2
Acres Insured	1,684	2,055	705	2,033	4,630	4,115	4,120	7,018	5,109	7,485	3,895
Acres on Which Damage Claimed	0	0	0	1,121	0	0	70	0	0	885	208
Percent	0	0	0	55.1	0	0	1.7	0	0	11.8	5.3
496. Spiritwood											
No. of Claims Filed	0	0	0	2	0	0	0	11	0	4	1.7
Acres Insured	233	124	214	79	93	2,168	5,919	5,917	4,764	6,318	2,583
Acres on Which Damage Claimed	0	0	0	79	0	0	0	1,639	0	941	266
Percent	0	0	0	100.0	0	0	0	27.7	0	14.9	10.3

(continued)

TABLE 2.3 SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED, ACRES INSURED AND ACRES ON WHICH DAMAGE CLAIMED IN THE STUDY AREA, 1962 TO 1971 (concluded)

Rural Municipality	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	Avg./Yr.
497. Medstead											
No. of Claims Filed	0	0	0	0	0	0	0	4	0	3	0.7
Acres Insured	244	480	0	1,721	2,063	2,155	3,091	2,599	2,276	3,345	1,797
Acres on Which Damage Claimed	0	0	0	0	0	0	0	228	0	470	70
Percent	0	0	0	0	0	0	0	8.8	0	14.1	3.9
498. Parkdale											
No. of Claims Filed	0	0	0	0	0	0	0	1	3	4	0.8
Acres Insured	413	0	0	0	0	0	305	526	4,542	7,237	1,302
Acres on Which Damage Claimed	0	0	0	0	0	0	0	102	380	714	120
Percent	0	0	0	0	0	0	0	19.4	8.4	9.9	9.2
499. Mervin											
No. of Claims Filed	0	3	1	2	1	0	3	0	4	9	2.3
Acres Insured	1,006	1,424	1,417	2,269	3,608	4,230	5,586	6,262	7,872	12,110	4,578
Acres on Which Damage Claimed	0	542	130	139	43	0	620	0	663	2,290	443
Percent	0	38.1	9.2	6.1	1.2	0	11.1	0	8.4	18.9	9.7
TOTAL STUDY AREA											
No. of Claims Filed	2	123	31	93	111	87	10	24	23	62	57
Acres Insured	84,985	98,909	102,692	109,268	124,181	123,952	138,165	139,198	109,735	152,644	118,373
Acres on Which Damage Claimed	561	17,765	4,850	17,943	19,387	14,608	1,795	2,525	3,283	12,886	9,560
Percent	0.7	18.0	4.7	16.4	15.6	11.8	1.3	1.8	3.0	8.4	8.1

Source: Saskatchewan Municipal Hail Insurance Association, Regina, Saskatchewan.

Sales of Farmland

An overview of farmland transactions in the study area is provided by the data in Table 2.4. In the nine-year period from 1963 to 1971, 1,033 transactions were recorded, averaging 300 acres each. These are representative sales in the sense that the tabulations did not include family or other deals involving concessions or premiums; e.g., farmland that is near a town and that may have been purchased for non-agricultural use. The average price of an acre of land rose from \$20.68 in 1963 to \$60.64 in 1968, almost tripling in value. The high price of \$158.23 for an acre in 1968 afterwards fell to \$125.00 by 1971.

Although many factors enter into a determination of land values, three factors could be mentioned in a superficial explanation of observed price levels: soil classification, general economic inflation and grain marketing. Land in Class 1 or Class 2 is usually worth more than land in Class 3 or Class 4. General economic inflation is, in time, reflected in higher prices for land. As grain marketing keeps pace with production, the pressure on land values is upward. If the supply of grain becomes too large relative to demand, however, the pressure on land values is downward. This is what happened after the 1968-69 crop year.

TABLE 2.4 REPRESENTATIVE LAND VALUES BY SELLING PRICE PER ACRE, 1963 TO 1971

Year	Number of Transactions	Total Acreage	Price per Acre ^a		
			Low	High	Average
			\$	\$	\$
1963	127	37,717	3.17	100.00	20.68
1964	129	37,178	0.68	130.43	36.72
1965	124	40,209	3.91	156.25	40.69
1966	159	46,381	7.11	143.75	45.75
1967	142	38,586	9.00	157.23	56.05
1968	113	38,368	11.25	158.23	60.64
1969	81	25,625	6.07	150.00	47.33
1970	55	15,957	18.75	106.25	50.16
1971	103	29,753	4.02	125.00	49.28

^aLess improvements.

Source: Farm Credit Corporation, Regina, Saskatchewan.

Land Use

Tables 2.5, 2.6, and 2.7 present detailed information on land use at each delivery point in 1962-63, 1969-70 and 1970-71. Between 1962-63 and 1969-70, farm acreage in the study area increased by 125,860 acres or 3.2 percent. At the same time, uncultivated land decreased by 198,116 acres or 14.2 percent. Twelve delivery points closed or closed for storage only between 1962-63 and 1970-71, surrendering a total of 260,366 acres to neighboring points.

Of the 9 delivery points "too small to classify" that were open in 1969-70, 6 decreased in acreage between 1962-63 and 1969-70 and 3 increased in acreage. Of the 52 points in the other classifications, 2 were closed for storage only by 1969-70, 14 had fewer acres and 36 had more acres. In general the smaller communities had decreases in acreage between 1962-63 and 1969-70 and the larger communities had increases.¹

Relatively little change occurred in the pattern of land use between 1962-63 and 1969-70 in the study area. About 20-25 percent of the acreage was in summer fallow, 20 percent in wheat, 15 percent in oats and barley, 10 percent in other crops and the remaining 30-35 percent in uncultivated land. Rapeseed acreage increased almost fourfold.

In 1971 substantial changes in land use took place. They were primarily in response to Operation LIFT, a program designed by the federal government to reduce Canada's wheat surplus.² The greatest absolute changes from 1969-70 were in hard red spring wheat, which fell by 507,839 acres or 66.8 percent, in summer fallow which rose by 262,531 acres or 26.6 percent, and in rapeseed which increased by 166,026 acres or 50.6 percent.

It should be noted that "specified acres" as such disappeared in the 1970-71 crop year under Operation LIFT. For comparative purposes, however, a subtotal in Table 2.7 shows the crops that comprised specified acres in 1969-70. In the study area this acreage decreased by 7.5 percent.

¹The interested reader may wish to compare this data with that contained in Tables 3.2 and 3.15 which show changes in number of delivery permits issued and in average farm to elevator hauling distances.

²LIFT is an acronym derived from "Lower Inventory For Tomorrow".

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Durum	Flax	Rapeseed	Other Crops	Uncult. Land	Total
<i>Too Small to Classify</i>													
1 Hartwell Acres	Storage only												
2 Cameo Acres	Storage only												
3 Bournemouth Acres	1,009	1,380	632	-	1,875	373	5,269	-	2	110	79	5,103	10,563
Percent	9.6	13.1	6.0	-	17.7	3.5	49.9	-	0.1	1.0	0.7	48.3	100.0
4 Dulwich Acres	3,606	1,693	565	272	3,699	1,114	10,949	30	300	60	110	6,816	18,265
Percent	19.7	9.3	3.1	1.5	20.2	6.1	59.9	0.2	1.7	0.3	0.6	37.3	100.0
5 Cleaves Acres	3,871	2,127	883	220	3,657	2,463	13,221	-	-	125	188	8,625	22,159
Percent	17.5	9.6	4.0	1.0	16.5	11.1	59.7	-	-	0.6	0.8	38.9	100.0
6 Ormeaux Acres	3,422	1,577	590	90	5,395	2,868	13,942	-	-	47	267	7,468	21,724
Percent	15.8	7.3	2.7	0.4	24.8	13.2	64.2	-	-	0.2	1.2	34.4	100.0
7 Ordale Acres	4,018	2,332	1,357	837	4,769	2,285	15,598	-	-	25	201	10,353	26,177
Percent	15.3	9.0	5.2	3.2	18.2	8.7	59.6	-	-	0.1	0.8	39.5	100.0
8 Tallman Acres	13,948	2,542	1,408	234	10,430	1,009	29,571	-	70	85	119	8,907	38,752
Percent	36.0	6.6	3.6	0.6	26.9	2.6	76.3	-	0.2	0.2	0.3	23.0	100.0
9 Kilwinning Acres	Storage only												
10 Redberry Acres	3,024	600	30	-	2,193	25	5,872	-	-	-	15	2,475	8,362
Percent	36.2	7.2	0.3	-	26.2	0.3	70.2	-	-	-	0.2	29.6	100.0
11 Scentgrass Acres	7,817	1,356	500	-	7,330	565	17,568	204	85	60	196	6,254	24,367
Percent	32.1	5.6	2.1	-	30.1	2.3	72.2	0.8	0.3	0.2	0.8	25.7	100.0
12 Polwarth Acres	2,981	867	1,101	-	4,225	446	9,620	-	-	538	136	3,709	14,003
Percent	21.3	6.2	7.8	-	30.2	3.2	68.7	-	-	3.8	1.0	26.5	100.0
13 Cater Acres	604	1,631	1,391	-	1,947	875	6,448	-	-	280	126	7,979	14,833
Percent	4.1	11.0	9.4	-	13.1	5.9	43.5	-	-	1.9	0.8	53.8	100.0
14 Brada Acres	11,661	934	460	177	8,636	459	22,327	65	10	130	25	3,309	25,866
Percent	45.1	3.6	1.7	0.7	33.4	1.8	86.3	0.2	0.1	0.5	0.1	12.8	100.0
15 Lilac Acres	12,032	2,517	1,057	-	10,629	618	26,853	366	-	255	331	7,227	35,032
Percent	34.3	7.2	3.0	-	30.3	1.8	76.6	1.1	-	0.7	1.0	20.6	100.0

(continued)

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Specified Acres										Uncult. Land	Total	
	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	(Subtotal)	Durum	Flax	Rapeseed			Other Crops
16 Iffley Acres Percent	6,624 16.2	2,478 6.1	926 2.3	-	5,618 13.7	2,049 5.0	17,695 43.3	42 0.1	115 0.3	235 0.6	198 0.5	22,601 55.2	40,886 100.0
17 Ranger Acres Percent	3,098 14.4	2,227 10.3	2,604 12.1	-	3,147 14.6	505 2.3	11,581 53.7	-	-	12 0.0	251 1.2	9,732 45.1	21,576 100.0
Hamlets													
18 Hatherleigh Acres Percent	3,610 25.3	870 6.1	93 0.6	55 0.4	2,115 14.9	523 3.7	7,266 51.0	-	-	-	100 0.7	6,875 48.3	14,241 100.0
19 Redfield Acres Percent	8,014 28.2	1,996 7.0	510 1.8	-	6,106 21.5	269 0.9	16,895 59.4	-	-	-	29 0.1	11,531 40.5	28,455 100.0
20 Hamlin Acres Percent	14,545 31.5	3,985 8.6	1,253 2.7	100 0.2	15,349 33.3	1,726 3.7	36,958 80.0	175 0.4	35 0.1	765 1.7	50 0.1	8,183 17.7	46,166 100.0
21 Crutwell Acres Percent	3,059 15.9	1,511 7.8	2,179 11.3	343 1.8	4,638 24.1	1,106 5.7	12,836 66.6	-	-	786 4.1	137 0.7	5,514 28.6	19,273 100.0
22 Cavalier Acres Percent	12,539 26.6	3,057 6.5	1,291 2.8	885 1.9	13,383 28.4	1,373 2.9	32,528 69.1	417 0.9	37 0.1	160 0.3	375 0.8	13,563 28.8	47,080 100.0
23 Keatley Acres Percent	12,437 32.7	2,174 5.7	1,740 4.6	-	10,261 27.0	972 2.6	27,584 72.6	90 0.2	10 0.0	25 0.1	74 0.2	10,233 26.9	38,016 100.0
24 Bapaume Acres Percent	4,629 13.6	2,573 7.5	3,508 10.3	-	5,008 14.7	1,948 5.7	17,666 51.8	-	-	471 1.4	515 1.5	15,464 45.3	34,116 100.0
25 Robinhood Acres Percent	2,055 5.2	4,927 12.4	2,867 7.2	-	4,861 12.3	1,355 3.4	16,065 40.5	-	-	256 0.7	117 0.3	23,182 58.5	39,620 100.0
26 Fairholme Acres Percent	3,279 11.6	3,846 13.6	951 3.3	-	4,047 14.3	647 2.3	12,770 45.1	-	67 0.2	169 0.6	297 1.1	14,982 53.0	28,285 100.0
27 Sandwith Acres Percent	1,325 7.1	2,960 15.8	571 3.0	-	2,492 13.3	704 3.8	8,052 43.0	-	-	83 0.5	135 0.7	10,458 55.8	18,728 100.0
28 Mildred Acres Percent	4,676 11.8	1,757 4.4	3,556 9.0	5 0.1	4,773 12.1	2,328 5.9	17,095 43.3	-	-	131 0.3	219 0.6	21,990 55.8	39,435 100.0
29 Belbutte Acres Percent	4,730 15.9	3,356 11.3	1,835 6.2	40 0.1	4,792 16.1	1,648 5.5	16,401 55.1	-	-	8 0.1	502 1.7	12,805 43.1	29,716 100.0
30 Prince Acres Percent	14,164 29.2	3,320 6.8	2,196 4.5	240 0.5	14,480 29.9	3,013 6.2	37,413 77.1	175 0.4	195 0.4	185 0.4	137 0.3	10,398 21.4	48,503 100.0

(continued)

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Specified Acres (Subtotal)										Total
	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Durum	Flax	Rapeseed	Other Crops	Uncult. Land
31 Richard Acres Percent	21,864 37.4	3,534 6.0	1,542 2.6	-	18,058 30.9	975 1.7	45,973 78.6	250 0.4	330 0.6	196 0.3	11,531 19.8
32 Denholm Acres Percent	21,897 42.9	1,286 2.5	1,544 3.0	-	16,250 31.9	376 0.8	41,353 81.1	-	320 0.6	101 0.2	8,412 16.5
33 Ruddell Acres Percent	8,777 38.6	1,693 7.4	750 3.3	-	6,697 29.4	750 3.3	18,667 82.0	-	10 0.1	124 0.5	3,705 16.3
34 Alticane Acres Percent	7,348 16.7	3,985 9.1	994 2.3	-	7,064 16.1	580 1.3	19,971 45.5	-	-	147 0.3	23,811 54.2
35 Glenbush Acres Percent	3,064 8.1	6,400 16.8	3,225 8.5	-	7,088 18.7	1,231 3.2	21,008 55.3	-	45 0.1	525 1.4	16,425 43.2
36 Fielding Acres Percent	11,424 27.3	2,927 7.0	2,223 5.3	165 0.4	10,726 25.6	2,372 5.7	29,837 71.3	40 0.1	107 0.3	190 0.4	11,540 27.6
37 Mont Nebo Acres Percent	7,341 19.4	1,918 5.1	968 2.6	416 1.1	8,550 22.6	2,713 7.1	21,906 57.9	-	569 1.5	285 0.7	15,042 39.8
Villages											
38 Whitlow Acres Percent	20,019 28.3	5,079 7.2	1,319 1.9	385 0.5	13,909 19.7	1,033 1.5	41,744 59.1	-	-	260 0.4	28,589 40.5
39 Mullingar Acres Percent	5,140 11.0	5,462 11.7	1,709 3.7	-	7,592 16.3	1,274 2.7	21,177 45.4	7 0.1	210 0.4	244 0.5	24,951 53.6
40 Holbein Acres Percent	17,049 18.9	5,944 6.6	10,049 11.1	863 0.9	24,198 26.8	5,201 5.8	63,304 70.1	30 0.1	4,495 4.9	1,285 1.4	21,091 23.4
41 Parkside Acres Percent	8,104 12.6	5,289 8.2	8,101 12.5	4,290 6.7	10,584 16.4	6,613 10.2	42,981 66.6	17 0.0	972 1.5	493 0.8	20,088 31.1
42 Makwa Acres Percent	8,452 15.8	5,951 11.1	5,346 10.0	220 0.4	7,296 13.7	3,069 5.7	30,334 56.7	6 0.0	830 1.6	755 1.4	21,552 40.3
43 Livelong Acres Percent	4,747 7.6	9,058 14.5	1,605 2.6	-	7,677 12.3	4,415 7.0	27,502 44.0	100 0.2	181 0.3	351 0.6	34,318 54.9
44 Vawn Acres Percent	13,057 21.9	3,757 6.3	1,748 2.9	2,034 3.4	15,546 26.1	2,957 5.0	39,099 65.6	147 0.2	60 0.1	1,093 1.8	19,174 32.2
45 Krydor Acres Percent	25,993 35.0	4,470 6.0	700 0.9	-	18,024 24.3	127 0.2	49,314 66.4	20 0.1	-	166 0.2	24,684 33.3

(continued)

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)		Flax	Rapeseed	Other Crops	Uncult. Land	Total
46 Medstead Acres Percent	2,156 4.2	7,570 14.9	3,400 6.7	- -	8,053 15.8	2,019 4.0	23,198 45.6	- -	- -	236 0.5	525 1.0	26,934 52.9	50,893 100.0
47 Speers Acres Percent	19,212 38.0	2,342 4.6	1,404 2.8	240 0.5	17,559 34.8	863 1.7	41,620 82.4	- -	397 0.8	- -	277 0.5	8,243 16.3	50,537 100.0
48 Mayfair Acres Percent	6,403 12.7	5,899 11.8	1,257 2.5	- -	8,328 16.6	1,155 2.3	23,042 45.9	- -	- -	135 0.3	244 0.5	26,769 53.3	50,190 100.0
49 Maymont Acres Percent	17,924 35.6	4,439 8.8	1,139 2.2	22 0.1	14,605 29.0	2,016 4.0	40,145 79.7	- -	- -	- -	132 0.3	10,085 20.0	50,362 100.0
50 Mervin Acres Percent	10,772 16.8	7,022 11.0	2,081 3.2	80 0.1	11,589 18.1	5,652 8.8	37,196 58.0	13 0.1	49 0.1	977 1.5	776 1.2	25,070 39.1	64,081 100.0
51 Meota Acres Percent	9,030 30.5	2,033 6.9	1,495 5.0	10 0.1	8,631 29.1	1,407 4.7	22,606 76.3	55 0.2	315 1.0	120 0.4	138 0.5	6,390 21.6	29,624 100.0
52 Shell Lake Acres Percent	13,249 13.8	4,780 4.9	3,694 3.8	666 0.7	14,845 15.4	5,263 5.5	42,497 44.1	- -	20 0.1	695 0.7	601 0.6	52,461 54.5	96,274 100.0
53 Rabbit Lake Acres Percent	7,975 14.9	6,583 12.3	2,620 4.9	- -	12,456 23.2	1,141 2.1	30,775 57.4	- -	- -	526 1.0	594 1.1	21,681 40.5	53,576 100.0
54 Marcelin Acres Percent	24,269 31.3	4,954 6.4	4,935 6.3	1,769 2.3	18,940 24.4	2,636 3.4	57,503 74.1	110 0.2	95 0.1	173 0.2	173 0.2	19,553 25.2	77,607 100.0
Towns													
55 Debden Acres Percent	11,247 12.3	6,997 7.6	5,282 5.8	115 0.1	17,440 19.1	7,470 8.2	48,551 53.1	- -	35 0.1	1,663 1.8	1,022 1.1	40,143 43.9	91,414 100.0
56 Leoville Acres Percent	8,845 11.2	8,657 11.0	7,611 9.7	- -	14,493 18.4	4,369 5.6	43,975 55.9	- -	115 0.1	896 1.1	1,067 1.4	32,605 41.5	78,658 100.0
57 Borden Acres Percent	34,738 31.3	11,597 10.5	4,358 3.9	613 0.6	29,855 26.9	3,487 3.1	84,648 76.3	203 0.2	70 0.1	30 0.0	195 0.2	25,709 23.2	110,855 100.0
58 Edam Acres Percent	17,311 18.7	8,344 9.0	1,880 2.0	1,517 1.6	19,303 20.8	8,018 8.7	56,373 60.8	265 0.3	- -	390 0.4	457 0.5	35,282 38.0	92,767 100.0
59 Radisson Acres Percent	25,342 32.5	6,355 8.1	5,885 7.5	123 0.2	22,941 29.4	2,335 2.9	62,981 80.6	480 0.6	- -	40 0.1	80 0.1	14,511 18.6	78,092 100.0
60 Canwood Acres Percent	26,440 20.1	10,608 8.1	9,389 7.1	275 0.2	35,483 27.0	7,968 6.1	90,163 68.6	- -	- -	2,708 2.0	1,262 1.0	37,344 28.4	131,477 100.0

(continued)

TABLE 2.5 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1962-63 (concluded)

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Durum	Flax	Rapeseed	Other Crops	Uncult. Land	Total
61 Glaslyn													
Acres	10,930	12,140	4,428	28	14,750	4,814	47,090	2	49	970	833	55,197	104,141
Percent	10.5	11.6	4.2	0.1	14.2	4.6	45.2	0.0	0.1	0.9	0.8	53.0	100.0
62 Hafford													
Acres	40,489	8,792	2,089	167	27,676	3,000	82,213	-	-	53	470	45,745	128,481
Percent	31.5	6.9	1.6	0.1	21.5	2.3	63.9	-	-	0.1	0.4	35.6	100.0
63 Big River													
Acres	2,447	3,522	2,758	-	4,901	4,452	18,080	3	6	241	447	20,861	39,638
Percent	6.2	8.9	7.0	-	12.3	11.2	45.6	0.0	0.1	0.6	1.1	52.6	100.0
64 Turtleford													
Acres	14,142	9,182	2,941	90	14,110	5,188	45,653	-	-	698	586	25,568	72,505
Percent	19.5	12.7	4.0	0.1	19.5	7.1	62.9	-	-	1.0	0.8	35.3	100.0
65 Leask													
Acres	36,491	9,684	7,973	10,521	31,861	8,498	105,028	130	190	959	700	43,279	150,286
Percent	24.3	6.4	5.3	7.0	21.2	5.7	69.9	0.1	0.1	0.6	0.5	28.8	100.0
Greater Towns													
66 Spiritwood													
Acres	20,508	9,605	11,885	27	23,764	5,464	71,253	-	85	1,295	1,001	43,102	116,736
Percent	17.6	8.2	10.2	0.0	20.3	4.7	61.0	-	0.1	1.1	0.9	36.9	100.0
67 Shellbrook													
Acres	27,642	10,476	18,350	4,400	37,126	9,170	107,164	17	25	4,404	882	42,712	155,204
Percent	17.8	6.8	11.8	2.8	23.9	5.9	69.0	0.0	0.1	2.8	0.6	27.5	100.0
68 Meadow Lake													
Acres	60,619	38,433	46,697	738	61,377	20,186	228,050	-	313	11,021	1,926	157,970	399,280
Percent	15.2	9.6	11.7	0.2	15.4	5.0	57.1	-	0.1	2.8	0.5	39.5	100.0
Cities													
69 North Battleford													
Acres	24,707	3,950	2,350	-	23,231	2,509	56,747	-	-	634	597	14,403	72,381
Percent	34.1	5.5	3.2	-	32.1	3.5	78.4	-	-	0.9	0.8	19.9	100.0
Study Area Total													
Acres	823,941	331,310	233,778	33,272	838,431	186,032	2,446,764	4,296	3,307	41,994	26,129	1,392,266	3,914,756
Percent	21.0	8.5	6.0	0.8	21.4	4.8	62.5	0.1	0.1	1.1	0.7	35.5	100.0
Saskatchewan Total													
Acres	15,454,942	3,260,029	1,806,685	359,911	17,922,504	1,755,699	40,559,770	2,706,327	346,557	151,889	257,875	12,195,975	56,218,393
Percent	27.5	5.8	3.2	0.6	31.9	3.1	72.1	4.8	0.6	0.3	0.5	21.7	100.0

Source: Canadian Wheat Board, Winnipeg.

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)				Other Crops	Uncult. Land	Total
								Flax	Rapeseed					
Too Small to Classify														
1 Hartwell	Closed													
Acres														
Percent														
2 Cameo	Closed													
Acres														
Percent														
3 Bournemouth														
Acres	1,300	-	715	1,675	-	3,354	484	7,528	293	89	5,099	13,094		
Percent	9.9	-	5.5	12.8	-	25.6	3.7	57.5	2.2	0.7	39.0	100.0		
4 Dulwich	Closed													
Acres														
Percent														
5 Cleaves	Closed													
Acres														
Percent														
6 Ormeaux	Closed													
Acres														
Percent														
7 Ordale														
Acres	2,351	-	1,202	1,450	344	2,567	2,051	9,965	95	-	5,948	16,008		
Percent	14.7	-	7.5	9.1	2.1	16.0	12.8	62.2	0.6	-	37.2	100.0		
8 Tallman														
Acres	8,243	-	1,214	1,166	-	8,833	187	19,643	175	351	3,642	24,109		
Percent	34.2	-	5.0	4.8	-	36.6	0.8	81.4	0.7	1.5	15.1	100.0		
9 Kilwinning	Closed													
Acres														
Percent														
10 Redberry														
Acres														
Percent														
Storage only														
11 Scentgrass														
Acres	6,685	85	1,406	719	200	8,113	1,362	18,570	534	73	9,377	28,561		
Percent	23.4	0.3	4.9	2.5	0.7	28.4	4.8	65.0	1.9	0.2	32.8	100.0		
12 Polwarth														
Acres	2,226	-	851	1,504	-	4,301	518	9,400	1,041	200	2,720	13,361		
Percent	16.7	-	6.4	11.2	-	32.2	3.9	70.4	7.8	1.5	20.3	100.0		
13 Cater														
Acres														
Percent														
Storage only														
14 Brada														
Acres	9,215	85	961	1,380	250	10,561	228	22,680	448	100	3,356	26,614		
Percent	34.6	0.3	3.6	5.2	0.9	39.7	0.9	85.2	1.7	0.4	12.6	100.0		
15 Lillac														
Acres	8,870	120	1,490	2,023	10	11,312	631	24,456	1,687	168	5,764	32,090		
Percent	27.6	0.4	4.6	6.3	0.1	35.2	2.0	76.2	5.2	0.5	18.0	100.0		

(continued)

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Flax	Rapeseed	Other Crops	Uncult. Land	Total
16 Iflfley Acres Percent	3,003 14.4	- -	698 3.4	1,192 5.7	- -	3,380 16.2	1,794 8.6	10,067 48.3	- -	40 0.2	588 2.8	10,138 48.7	20,833 100.0
17 Ranger Acres Percent	1,824 10.0	- -	1,533 8.4	2,973 16.3	- -	2,946 16.2	1,198 6.6	10,474 57.5	- -	140 0.8	361 2.0	7,233 39.7	18,208 100.0
<i>Hamlets</i>													
18 Hatherleigh Acres Percent	4,184 21.1	- -	875 4.4	410 2.1	50 0.2	3,172 16.0	642 3.2	9,333 47.0	- -	- -	73 0.4	10,441 52.6	19,847 100.0
19 Redfield Acres Percent	7,477 26.1	- -	1,213 4.2	1,195 4.2	55 0.2	6,635 23.1	225 0.8	16,800 58.6	70 0.2	690 2.4	345 1.2	10,773 37.6	28,678 100.0
20 Hamlin Acres Percent	16,157 29.6	269 0.5	2,386 4.4	3,282 6.0	222 0.4	18,990 34.8	2,211 4.0	43,517 79.7	435 0.8	3,634 6.6	168 0.3	6,881 12.6	54,635 100.0
21 Crutwell Acres Percent	Storage only												
22 Cavalier Acres Percent	10,400 21.2	- -	2,498 5.1	2,828 5.8	640 1.3	15,985 32.7	1,825 3.7	34,176 69.8	45 0.1	2,260 4.6	135 0.3	12,349 25.2	48,965 100.0
23 Keatley Acres Percent	10,386 25.9	- -	2,107 5.2	3,183 7.9	- -	11,989 29.8	769 1.9	28,434 70.7	193 0.5	1,282 3.2	273 0.7	9,992 24.9	40,174 100.0
24 Bapaume Acres Percent	7,578 14.0	- -	3,694 6.8	8,433 15.6	120 0.2	9,342 17.3	4,350 8.0	33,517 61.9	- -	781 1.4	262 0.5	19,587 36.2	54,147 100.0
25 Robinhood Acres Percent	2,062 5.1	- -	3,335 8.2	5,855 14.4	- -	6,704 16.4	2,934 7.2	20,890 51.3	- -	1,066 2.6	617 1.5	18,175 44.6	40,748 100.0
26 Fairholme Acres Percent	4,776 14.0	- -	2,714 7.9	3,008 8.8	- -	7,197 21.1	1,310 3.8	19,005 55.6	- -	1,205 3.5	509 1.5	13,448 39.4	34,167 100.0
27 Sandwith Acres Percent	2,832 11.4	- -	2,322 9.3	2,726 11.0	60 0.2	5,062 20.3	1,154 4.6	14,156 56.8	- -	415 1.7	55 0.2	10,283 41.3	24,909 100.0
28 Mildred Acres Percent	1,973 7.2	- -	1,062 3.9	4,085 14.9	- -	4,104 15.0	2,722 10.0	13,946 51.0	- -	90 0.3	460 1.7	12,843 47.0	27,339 100.0
29 Belbutte Acres Percent	Storage only												
30 Prince Acres Percent	16,013 24.6	- -	3,225 4.9	3,311 5.1	335 0.5	19,136 29.4	4,328 6.6	46,348 71.1	320 0.5	2,073 3.2	99 0.1	16,356 25.1	65,196 100.0

(continued)

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Specified Acres (Subtotal)					Other Crops	Uncult. Land	Total
							Forage Crops	Flax	Rapeseed	Flax	Rapeseed			
31 Richard Acres	17,732 30.5	690 1.2	2,269 3.9	3,087 5.3	203 0.3	20,782 35.7	1,087 1.9	45,850 78.8	262 0.4	1,420 2.4	58 0.1	10,638 18.3	58,228 100.0	
32 Denholm Acres	20,800 33.9	470 0.8	1,542 2.5	3,137 5.1	408 0.7	22,141 36.0	793 1.3	49,291 80.3	70 0.1	3,755 6.1	75 0.1	8,207 13.4	61,398 100.0	
33 Ruddell Acres	7,785 33.5	-	1,335 5.7	1,508 6.5	50 0.2	7,327 31.5	901 3.9	18,906 81.3	-	1,355 5.8	80 0.3	2,925 12.6	23,266 100.0	
34 Alticane Acres	5,016 17.4	-	2,437 8.5	1,645 5.7	65 0.2	5,634 19.6	448 1.6	15,245 53.0	-	30 0.1	352 1.2	13,137 45.7	28,764 100.0	
35 Glenbush Acres	3,204 9.6	-	3,566 10.7	5,852 17.5	-	9,289 27.7	1,208 3.6	23,119 69.1	-	325 1.0	494 1.5	9,536 28.4	33,474 100.0	
36 Fielding Acres	9,418 24.1	210 0.5	2,486 6.4	2,316 5.9	960 2.5	11,221 28.8	1,801 4.6	28,412 72.8	-	695 1.8	520 1.3	9,385 24.1	39,012 100.0	
37 Mont Nebo Acres	5,279 16.7	-	962 3.0	1,832 5.8	362 1.1	6,803 21.5	2,981 9.4	18,219 57.5	-	1,522 4.8	473 1.5	11,462 36.2	31,676 100.0	
Villages														
38 Whitkow Acres	8,584 25.3	-	1,508 4.4	1,168 3.4	25 0.1	8,008 23.5	642 1.9	19,935 58.6	-	790 2.3	40 0.1	13,241 39.0	34,006 100.0	
39 Mullingar Acres	3,069 10.0	-	2,265 7.4	2,926 9.5	-	5,708 18.6	1,502 4.9	15,470 50.4	-	773 2.5	330 1.1	14,100 46.0	30,673 100.0	
40 Holbein Acres	19,416 15.7	25 0.1	5,209 4.2	16,335 13.2	1,089 0.9	36,991 30.0	6,876 5.6	85,941 69.7	613 0.5	11,811 9.6	163 0.1	24,736 20.1	123,264 100.0	
41 Parkside Acres	5,886 10.1	-	3,739 6.4	9,269 15.8	2,079 3.5	10,820 18.5	8,322 14.2	40,115 68.5	-	3,839 6.6	108 0.2	14,505 24.7	58,567 100.0	
42 Makwa Acres	9,098 15.6	20 0.1	6,418 11.0	5,886 10.1	202 0.3	9,951 17.0	4,724 8.1	36,299 62.2	15 0.1	3,591 6.1	494 0.8	18,006 30.8	58,405 100.0	
43 Livelong Acres	3,185 5.0	-	5,936 9.3	5,415 8.5	122 0.2	8,606 13.5	4,531 7.0	27,795 43.5	-	982 1.5	649 1.0	34,497 54.0	63,923 100.0	
44 Vawn Acres	13,170 20.0	120 0.2	2,031 3.1	3,570 5.4	2,114 3.2	17,349 26.3	5,607 8.5	43,961 66.7	-	2,750 4.2	961 1.5	18,166 27.6	65,838 100.0	
45 Krydor Acres	23,270 31.4	-	3,481 4.7	1,643 2.2	-	21,710 29.2	2,288 3.1	52,392 70.6	90 0.1	540 0.7	80 0.1	21,138 28.5	74,240 100.0	

(continued)

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified					Total
								Acres (Subtotal)	Flax	Rapeseed	Other Crops	Uncult. Land	
46 Medstead Acres	5,375	-	7,393	10,700	-	13,635	5,411	42,514	6	1,419	1,479	31,772	77,190
Percent	6.7	-	9.8	13.9	-	17.7	7.0	55.1	0.1	1.8	1.9	41.1	100.0
47 Speers Acres	18,362	266	2,228	3,176	-	21,708	628	46,368	445	870	398	5,703	53,784
Percent	34.1	0.5	4.1	5.9	-	40.4	1.2	86.2	0.8	1.6	0.8	10.6	100.0
48 Mayfair Acres	7,693	-	3,665	3,884	8	11,835	1,501	28,586	-	711	668	24,184	54,149
Percent	14.2	-	6.8	7.2	0.0	21.8	2.8	52.8	-	1.3	1.2	44.7	100.0
49 Maymont Acres	18,431	-	3,115	1,587	187	18,465	2,243	44,028	-	280	441	8,521	53,270
Percent	34.6	-	5.8	3.0	0.4	34.7	4.2	82.7	-	0.5	0.8	16.0	100.0
50 Mervin Acres	9,941	-	4,903	4,633	153	16,144	4,204	39,978	144	2,731	515	21,579	64,947
Percent	15.3	-	7.6	7.1	0.2	24.9	6.5	61.6	0.2	4.2	0.8	33.2	100.0
51 Meota Acres	6,101	-	476	1,516	-	8,213	1,768	18,074	427	1,229	325	6,482	26,537
Percent	23.0	-	1.8	5.7	-	30.9	6.7	68.1	1.6	4.7	1.2	24.4	100.0
52 Shell Lake Acres	12,046	-	5,179	7,579	273	17,648	7,439	50,164	-	1,033	1,170	44,938	97,305
Percent	12.4	-	5.3	7.8	0.3	18.1	7.6	51.5	-	1.1	1.2	46.2	100.0
53 Rabbit Lake Acres	12,860	-	5,776	9,167	100	21,686	1,561	51,150	75	3,835	721	29,069	84,850
Percent	15.2	-	6.8	10.8	0.1	25.6	1.8	60.3	0.1	4.5	0.8	34.3	100.0
54 Marcelin Acres	21,968	295	3,957	6,636	1,031	20,275	4,028	58,190	465	1,297	1,049	18,402	79,403
Percent	27.7	0.4	5.0	8.3	1.3	25.5	5.1	73.3	0.6	1.6	1.3	23.2	100.0
Towns													
55 Debdon Acres	20,646	-	6,608	12,740	15	31,611	15,040	86,660	85	4,544	1,433	37,313	130,035
Percent	15.9	-	5.0	9.8	0.1	24.3	11.5	66.6	0.1	3.5	1.1	28.7	100.0
56 Leoville Acres	7,496	-	6,486	10,980	131	15,164	7,132	47,389	7	1,472	800	32,971	82,639
Percent	9.1	-	7.8	13.3	0.2	18.3	8.6	57.3	0.0	1.8	1.0	39.9	100.0
57 Borden Acres	30,880	329	8,200	8,449	581	32,780	5,920	87,139	49	213	251	22,233	109,885
Percent	28.1	0.3	7.5	7.7	0.5	29.8	5.4	79.3	0.1	0.2	0.2	20.2	100.0
58 Edam Acres	20,834	160	8,367	5,529	2,416	25,901	11,311	74,518	100	2,950	985	38,041	116,594
Percent	17.9	0.1	7.2	4.7	2.1	22.2	9.7	63.9	0.1	2.5	0.9	32.6	100.0
59 Radisson Acres	21,451	1,020	5,650	6,257	241	27,130	4,124	65,873	180	1,082	78	12,671	79,884
Percent	26.8	1.3	7.1	7.8	0.3	34.0	5.2	82.5	0.2	1.3	0.1	15.9	100.0
60 Canwood Acres	26,962	-	6,253	15,077	551	45,705	9,912	104,460	86	11,760	1,090	32,990	150,386
Percent	17.9	-	4.2	10.0	0.4	30.4	6.6	69.5	0.1	7.8	0.7	21.9	100.0

(continued)

TABLE 2.6 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1969-70 (concluded)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Specified Acres (Subtotal)					Other Crops	Uncult. Land	Total
							Forage Crops	Flax	Rapeseed					
61 Glaslyn Acres	12,370	-	8,559	9,334	190	17,883	6,627	54,963	100	2,373	1,148	43,367	101,951	
Percent	12.1	-	8.4	9.2	0.2	17.5	6.5	53.9	0.1	2.3	1.1	42.6	100.0	
62 Hafford Acres	36,073	-	7,931	6,264	273	37,174	5,810	93,525	45	774	966	47,375	142,685	
Percent	25.3	-	5.5	4.4	0.2	26.0	4.1	65.5	0.1	0.5	0.7	33.2	100.0	
63 Big River Acres	2,730	-	3,869	5,411	-	7,347	8,026	27,383	-	1,122	513	23,724	52,742	
Percent	5.2	-	7.3	10.3	-	13.9	15.2	51.9	-	2.1	1.0	45.0	100.0	
64 Turtleford Acres	18,723	-	7,621	10,633	176	24,672	6,796	68,621	-	4,385	2,735	32,093	107,834	
Percent	17.3	-	7.0	9.9	0.2	22.9	6.3	63.6	-	4.1	2.5	29.8	100.0	
65 Leask Acres	35,528	420	7,794	15,160	5,285	35,824	17,733	117,744	55	4,234	1,634	35,848	159,515	
Percent	22.3	0.3	4.9	9.5	3.3	22.4	11.1	73.8	0.1	2.6	1.0	22.5	100.0	
Greater Towns														
66 Spiritwood Acres	19,321	-	8,793	24,636	228	29,424	9,553	91,955	60	3,526	499	48,371	144,411	
Percent	13.4	-	6.1	17.0	0.2	20.4	6.6	63.7	0.1	2.4	0.3	33.5	100.0	
67 Shellbrook Acres	24,928	-	6,084	17,382	3,283	43,755	10,202	105,634	50	11,563	373	31,843	149,463	
Percent	16.7	-	4.1	11.6	2.2	29.3	6.8	70.7	0.1	7.7	0.2	21.3	100.0	
68 Meadow Lake Acres	60,100	45	30,152	49,336	818	66,853	24,862	232,166	420	39,979	6,599	129,528	408,692	
Percent	14.7	0.1	7.3	12.1	0.2	16.3	6.1	56.8	0.1	9.8	1.6	31.7	100.0	
Cities														
69 North Battleford Acres	26,988	972	3,813	4,305	812	31,805	2,889	71,584	120	6,659	637	17,048	96,048	
Percent	28.1	1.0	4.0	4.5	0.8	33.1	3.0	74.5	0.1	6.9	0.7	17.8	100.0	
Study Area Total	760,274	5,601	243,557	368,358	26,717	988,660	249,354	2,642,521	5,467	162,168	36,310	1,194,150	4,040,616	
Acres	18.8	0.1	6.0	9.1	0.7	24.5	6.2	65.4	0.1	4.0	0.9	29.6	100.0	
Percent														
Saskatchewan Total														
15,872,495 Acres	27.8	2,606,821	2,398,645	2,984,539	518,900	19,211,660	2,108,161	45,701,221	678,036	821,577	270,865	9,682,344	57,154,043	
Percent		4.6	4.2	5.2	0.9	33.6	3.7	80.0	1.2	1.4	0.5	16.9	100.0	

Source: Canadian Wheat Board, Winnipeg.

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
<i>Too small to classify</i>													
1 Hartwell Acres Percent	Closed												
2 Cameo Acres Percent	Closed												
3 Bournemouth Acres Percent	Closed												
4 Dulwich Acres Percent	Closed												
5 Cleaves Acres Percent	Closed												
6 Ormeaux Acres Percent	Closed												
7 Ordale Acres Percent	Closed												
8 Tallman Acres Percent	2,236 9.8	219 1.0	1,044 4.6	1,961 8.6	137 0.6	10,584 46.5	780 3.4	16,961 74.5	555 2.4	1,853 8.1	- -	3,420 15.0	22,789 100.0
9 Kilwinning Acres Percent	Closed												
10 Redberry Acres Percent	Storage only												
11 Scentgrass Acres Percent	1,844 6.2	73 0.2	1,421 4.7	1,438 4.8	455 1.5	9,517 31.8	1,521 5.1	16,269 54.3	314 1.1	3,052 10.2	160 0.5	10,142 33.9	29,937 100.0
12 Polwarth Acres Percent	358 2.4	- -	604 4.1	1,582 10.6	20 0.1	4,800 32.2	789 5.3	8,153 54.7	- -	2,027 13.6	120 0.8	4,604 30.9	14,904 100.0
13 Cater Acres Percent	Storage only												
14 Brada Acres Percent	1,235 4.7	542 2.1	375 1.4	1,060 4.1	875 3.4	14,933 57.5	624 2.4	19,644 75.6	123 0.5	3,161 12.2	19 0.1	3,021 11.6	25,968 100.0
15 Lilac Acres Percent	2,150 6.9	185 0.6	1,550 5.0	1,690 5.4	40 0.1	13,656 43.7	1,055 3.4	20,326 65.1	341 1.1	4,653 14.9	78 0.2	5,839 18.7	31,237 100.0

(continued)

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
16 Iffley Acres Percent	1,628 7.0	-	1,556 6.6	1,136 4.8	151 0.7	5,678 24.1	1,772 7.5	11,921 50.7	100 0.4	310 1.3	80 0.3	11,124 47.3	23,535 100.0
17 Ranger Acres Percent	Closed												
<i>Hamlets</i>													
18 Hatherleigh Acres Percent	Storage only												
19 Redfield Acres Percent	1,936 7.8	70 0.3	920 3.7	1,669 6.8	80 0.3	7,585 30.7	426 1.7	12,686 51.3	310 1.3	2,162 8.8	239 0.9	9,303 37.7	24,700 100.0
20 Hamlin Acres Percent	2,490 4.5	58 0.1	2,143 3.9	4,065 7.3	178 0.3	24,205 43.6	3,626 6.5	36,765 66.2	765 1.4	10,315 18.6	246 0.4	7,475 13.4	55,566 100.0
21 Crutwell Acres Percent	Storage only												
22 Cavalier Acres Percent	2,535 5.1	-	2,183 4.4	3,861 7.8	601 1.2	17,226 34.9	3,083 6.2	29,489 59.6	285 0.6	6,432 13.0	199 0.4	13,019 26.4	49,424 100.0
23 Keatley Acres Percent	3,610 8.7	-	1,895 4.6	3,571 8.6	-	16,097 38.8	1,142 2.8	26,315 63.5	415 1.0	4,241 10.2	27 0.1	10,457 25.2	41,455 100.0
24 Bapaume Acres Percent	3,389 5.4	-	4,755 7.6	8,774 14.1	-	14,802 23.7	5,429 8.7	37,149 59.5	185 0.3	1,766 2.8	572 0.9	22,761 36.5	62,433 100.0
25 Robinhood Acres Percent	527 1.3	-	2,727 6.8	4,398 10.9	235 0.6	8,252 20.5	3,346 8.3	19,485 48.4	3.0 0.1	1,847 4.6	276 0.7	18,554 46.2	40,192 100.0
26 Fairholme Acres Percent	1,353 4.9	-	2,394 8.7	1,558 5.7	-	6,802 24.6	2,219 8.0	14,326 51.9	-	2,275 8.2	141 0.5	10,882 39.4	27,624 100.0
27 Sandwith Acres Percent	658 2.3	-	2,565 9.0	2,489 8.8	-	8,422 29.7	1,060 3.7	15,194 53.5	-	1,969 6.9	120 0.4	11,113 39.2	28,396 100.0
28 Mildred Acres Percent	490 1.7	-	1,479 5.2	3,610 12.8	-	5,191 18.3	3,413 12.0	14,183 50.0	-	928 3.3	165 0.2	13,177 46.5	28,353 100.0
29 Belbutte Acres Percent	Storage only												
30 Prince Acres Percent	4,559 6.8	-	2,680 4.0	4,600 6.9	488 0.7	23,760 35.7	5,858 8.8	41,945 62.9	473 0.7	6,028 9.1	162 0.2	18,065 27.1	66,673 100.0

(continued)

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
31 Richard Acres	2,869	897	2,688	3,612	330	25,650	2,062	38,108	1,086	5,459	-	11,062	55,715
Percent	5.2	1.6	4.8	6.5	0.6	46.0	3.7	68.4	1.9	9.8	-	19.9	100.0
32 Denholm Acres	4,678	875	1,323	2,553	183	31,810	1,476	42,898	135	9,291	18	8,834	61,176
Percent	7.6	1.4	2.2	4.2	0.3	52.0	2.4	70.1	0.2	15.2	0.1	14.4	100.0
33 Ruddell Acres	1,746	310	1,217	1,729	160	11,887	1,101	18,150	40	1,824	-	3,295	23,309
Percent	7.5	1.3	5.2	7.5	0.7	51.0	4.7	77.9	0.2	7.8	-	14.1	100.0
34 Alticane Acres	2,153	135	2,491	2,111	62	7,640	665	15,257	10	19	55	13,459	28,800
Percent	7.5	0.5	8.7	7.3	0.2	26.5	2.3	53.0	0.0	0.1	0.2	46.7	100.0
35 Glenbush Acres	921	-	3,134	5,847	60	10,281	1,838	22,081	-	1,276	138	9,403	32,898
Percent	2.8	-	9.5	17.8	0.2	31.2	5.6	67.1	-	3.9	0.4	28.6	100.0
36 Fielding Acres	3,233	235	2,484	2,613	332	15,643	3,008	27,548	55	1,895	80	10,047	39,625
Percent	8.1	0.6	6.3	6.6	0.8	39.5	7.6	69.5	0.1	4.8	0.2	25.4	100.0
37 Mont Nebo Acres	2,964	-	916	1,250	340	8,106	3,310	16,886	-	2,657	50	10,601	30,194
Percent	9.8	-	3.0	4.1	1.1	26.9	11.0	55.9	-	8.8	0.2	35.1	100.0
<i>Villages</i>													
38 Whitkow Acres	5,565	-	2,001	1,581	47	14,249	1,660	25,103	128	2,311	100	19,039	46,681
Percent	11.9	-	4.3	3.4	-	30.5	3.6	53.7	0.3	5.0	0.2	40.8	100.0
39 Mullingar Acres	876	-	2,273	2,517	115	6,221	1,582	13,584	-	979	60	12,835	27,458
Percent	3.2	-	8.3	9.2	0.4	22.6	5.8	49.5	-	3.6	0.2	46.7	100.0
40 Holbein Acres	8,072	105	4,728	13,034	1,194	41,919	9,712	78,764	946	18,935	172	24,919	123,736
Percent	6.5	0.1	3.8	10.5	1.0	33.9	7.9	63.7	0.8	15.3	0.1	20.1	100.0
41 Parkside Acres	1,706	-	3,569	8,165	1,415	13,278	8,752	36,885	-	4,234	8	13,762	54,889
Percent	3.1	-	6.5	14.9	2.6	24.2	15.9	67.2	-	7.7	0.1	25.0	100.0
42 Makwa Acres	Storage only												
43 Livelong Acres	896	-	6,286	5,074	25	10,483	5,220	27,984	-	2,266	421	34,844	65,515
Percent	1.4	-	9.6	7.7	-	16.0	8.0	42.7	-	3.5	0.6	53.2	100.0
44 Vawn Acres	5,003	-	2,522	3,575	2,122	18,296	7,360	38,878	-	7,463	5	18,927	65,273
Percent	7.7	-	3.9	5.5	3.2	28.0	11.3	59.6	-	11.4	0.0	29.0	100.0
45 Krydor Acres	10,339	111	3,845	3,334	-	29,142	3,261	50,032	268	3,354	80	22,005	75,739
Percent	13.7	0.1	5.1	4.4	-	38.5	4.3	66.1	0.4	4.4	0.1	29.0	100.0

(continued)

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
46 Medstead Acres	1,470	-	6,593	9,624	-	16,179	6,397	40,263	15	2,262	66	31,279	73,885
Percent	2.0	-	8.9	13.0	-	21.9	8.7	54.5	0.0	3.1	0.1	42.3	100.0
47 Speers Acres	5,098	506	1,831	3,842	85	31,092	899	43,353	1,200	3,649	134	5,910	54,246
Percent	9.4	0.9	3.4	7.1	0.2	57.3	1.7	80.0	2.2	6.7	0.2	10.9	100.0
48 Mayfair Acres	3,755	50	4,036	4,400	40	15,898	1,788	29,967	125	2,993	735	27,625	61,445
Percent	6.1	0.1	6.5	7.2	0.1	25.9	2.9	48.8	0.2	4.9	1.2	44.9	100.0
49 Maymont Acres	5,446	75	3,507	2,972	235	27,078	2,672	41,985	-	2,544	20	8,639	53,188
Percent	10.3	0.1	6.6	5.6	0.5	50.9	5.0	79.0	-	4.8	0.0	16.2	100.0
50 Mervin Acres	5,308	60	4,466	6,685	193	16,513	4,664	37,889	503	5,668	394	21,095	65,549
Percent	8.1	0.1	6.8	10.2	0.3	25.2	7.1	57.8	0.8	8.6	0.6	32.2	100.0
51 Meota Acres	1,839	69	522	1,835	95	10,582	2,146	17,088	55	2,664	802	6,571	27,180
Percent	6.8	0.2	1.9	6.8	0.3	38.9	7.9	62.8	0.2	9.8	3.0	24.2	100.0
52 Shell Lake Acres	3,952	-	4,432	7,561	268	22,043	10,154	48,410	-	2,826	272	43,972	95,480
Percent	4.1	-	4.7	7.9	0.3	23.1	10.6	50.7	-	2.9	0.3	46.1	100.0
53 Rabbit Lake Acres	5,001	-	6,113	9,388	746	30,019	3,565	54,832	62	9,100	175	37,729	101,898
Percent	4.9	-	6.0	9.2	0.7	29.5	3.5	53.8	0.1	8.9	0.2	37.0	100.0
54 Marcelin Acres	6,392	172	3,192	8,492	324	29,911	6,358	54,841	493	4,463	455	18,874	79,126
Percent	8.1	0.2	4.0	10.8	0.4	37.8	8.0	69.3	0.6	5.6	0.6	23.9	100.0
<i>TOWNS</i>													
55 Debben Acres	7,530	-	5,373	12,177	65	37,041	21,553	83,739	199	9,091	320	41,408	134,757
Percent	5.6	-	4.0	9.0	0.0	27.5	16.0	62.1	0.2	6.8	0.2	30.7	100.0
56 Leoville Acres	1,697	-	6,643	12,638	20	21,375	8,886	51,259	70	3,090	307	37,334	92,060
Percent	1.8	-	7.2	13.7	0.1	23.2	9.7	55.7	0.1	3.3	0.3	40.6	100.0
57 Borden Acres	14,942	813	8,922	10,040	424	42,796	8,191	86,128	156	1,821	73	22,105	110,283
Percent	13.6	0.7	8.1	9.1	0.4	38.8	7.4	78.1	0.1	1.7	0.1	20.0	100.0
58 Edam Acres	8,953	-	7,139	6,933	1,932	32,002	13,347	70,306	45	7,318	1,002	39,287	117,958
Percent	7.6	-	6.1	5.9	1.6	27.1	11.3	59.6	0.0	6.2	0.9	33.3	100.0
59 Radisson Acres	9,989	1,281	4,522	6,755	283	34,368	5,409	62,607	451	3,236	173	12,948	79,415
Percent	12.6	1.6	5.7	8.5	0.3	43.3	6.8	78.8	0.6	4.1	0.2	16.3	100.0
60 Canwood Acres	7,919	40	7,007	14,808	255	53,952	13,948	97,929	90	23,036	304	36,339	157,698
Percent	5.0	0.1	4.4	9.4	0.2	34.2	8.8	62.1	0.1	14.6	0.2	23.0	100.0

(continued)

TABLE 2.7 LAND USE OF FARM ACREAGE BY DELIVERY POINT, 1970-71 (concluded)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
61 Glaslyn Acres Percent	6,581 6.1	-	8,006 7.5	10,297 9.6	110 0.1	23,231 21.7	8,749 8.2	56,974 53.2	105 0.1	5,209 4.9	258 0.2	44,630 41.6	167,176 100.0
62 Hafford Acres Percent	16,727 12.4	-	6,833 5.1	7,318 5.4	187 0.1	47,131 34.9	9,375 6.9	87,571 64.8	260 0.2	3,289 2.4	10 0.0	44,067 32.6	135,197 100.0
63 Big River Acres Percent	294 0.6	-	3,183 6.1	4,158 8.0	-	8,745 16.9	11,440 22.1	27,820 53.7	-	1,298 2.5	589 1.1	22,121 42.7	51,828 100.0
64 Turtleford Acres Percent	6,224 5.8	-	8,353 7.8	10,912 10.2	415 0.4	30,764 28.6	8,838 8.2	65,506 61.0	-	8,296 7.7	608 0.6	33,048 30.7	107,458 100.0
65 Leask Acres Percent	14,475 8.8	883 0.5	10,716 6.5	16,381 10.0	3,836 2.3	47,932 29.2	22,903 13.9	117,126 71.2	252 0.2	7,562 4.6	661 0.4	38,783 23.6	164,384 100.0
<i>Greater Towns</i>													
66 Spiritwood Acres Percent	7,331 5.2	-	9,109 6.5	21,308 15.1	159 0.1	39,239 27.8	10,643 7.5	87,789 62.2	185 0.1	5,873 4.2	325 0.2	46,914 33.3	141,086 100.0
67 Shellbrook Acres Percent	9,195 5.7	-	5,800 3.6	18,346 11.4	1,959 1.2	51,785 32.1	15,031 9.3	102,116 63.3	51 0.0	21,054 13.1	478 0.3	37,640 23.3	161,339 100.0
68 Meadow Lake Acres Percent	14,311 3.3	149 0.0	27,336 6.2	34,348 7.8	1,443 0.3	107,717 24.5	41,135 9.4	226,439 51.5	337 0.1	60,212 13.7	4,275 1.0	147,807 33.7	439,070 100.0
<i>Cities</i>													
69 North Battleford Acres Percent	5,987 6.3	1,139 1.2	3,339 3.5	5,660 5.9	519 0.5	37,683 39.4	4,002 4.2	58,329 61.0	1,017 1.1	16,658 17.4	738 0.8	18,856 19.7	95,598 100.0
Study Area Total Acres Percent	252,435 6.3	9,052 0.2	226,741 5.6	351,335 8.8	23,238 0.6	1,251,191 31.2	329,243 8.2	2,443,235 60.9	12,235 0.3	328,194 8.2	16,865 0.4	1,210,969 30.2	4,011,498 100.0
Saskatchewan Total Acres Percent	6,436,002 11.3	2,413,010 4.2	2,180,831 3.8	3,545,101 6.2	426,360 0.7	25,050,593 43.9	3,000,609 5.3	43,052,506 75.4	1,516,244 2.6	2,163,118 3.8	193,066 0.3	10,201,869 17.9	57,126,803 100.0

Source: Canadian Wheat Board, Winnipeg.

Crop Yields

Detailed information on crop yields at each delivery point is shown in Table 2.8. The high, low, range and average yields of spring wheat, durum wheat, oats, barley and flaxseed are given for the period from 1962-71. In some instances, data was not available for the full ten years.

The ten-year average yields per acre for spring wheat and durum wheat in the study area were about the same: 20.7 bushels for spring wheat and 23.2 bushels for durum wheat. For the other grains, the average yields in bushels per acre were as follows: oats, 40.8; barley, 33.0 and flaxseed 14.8. In the table a great variability of yields is apparent. The range between the high and low yields for each grain is always greater than the ten-year average yield value. For example, the range of 36 bushels per acre for spring wheat is more than the ten-year average yield of 20.7 bushels, and the range of 85 bushels per acre for oats is over twice the ten-year average yield of 40.8 bushels. This relationship, of course, is not as pronounced for a particular delivery point as it is for the study area as a whole.

TABLE 2.8 TEN-YEAR AVERAGE YIELDS OF SPRING WHEAT, DURUM, OATS, BARLEY AND FLAXSEED BY DELIVERY POINT, 1962-71

Delivery Point	Spring Wheat					Durum					Oats					Barley					Flaxseed				
	High	Low	Range	Ten-Year Average		High	Low	Range	Ten-Year Average		High	Low	Range	Ten-Year Average	- bushels per acre -	High	Low	Range	Ten-Year Average		High	Low	Range	Ten-Year Average	
<i>Too Small to Classify</i>																									
1 Hartwell	Closed																								
2 Cameo	Closed																								
3 Bournemouth	35	6	29	18.5 ^h																					
4 Dulwich	30	18	12	22.7 ^c																					
5 Cleaves	25	8	17	20.0 ^e																					
6 Ormeaux	30	12	18	20.4 ^e																					
7 Ordale	28	8	20	20.5 ^h																					
8 Tallman	30	10	20	24.1 ^h																					
9 Kilwinning	Closed																								
10 Redberry	35	7	28	18.0 ^e																					
11 Scentgrass	28	8	20	19.6 ⁱ																					
12 Polwarth	35	18	17	25.8 ^f																					
13 Cater	30	12	18	23.2 ^f																					
14 Brada	30	12	18	23.0 ⁱ																					
15 Lilac	35	8	27	25.6 ⁱ																					
16 Iffley	30	5	25	21.3 ^h																					
17 Ranger	30	6	24	17.1 ^h																					
<i>Hamlets</i>																									
18 Hatherleigh	26	4	22	16.6 ^h																					
19 Redfield	32	9	23	23.2																					
20 Hamlin	40	9	31	25.4																					
21 Crutwell	23	12	11	19.0 ^c																					
22 Cavalier	35	15	20	26.0 ⁱ																					
23 Keatley	30	10	20	23.0																					
24 Bapaume	35	8	27	22.6																					
25 Robinhood	30	4	26	18.2																					
26 Fairholme	30	5	25	18.3																					
27 Sandwith	35	5	30	19.8																					
28 Mildred	35	15	20	25.3																					
29 Belbutte	25	10	15	17.2 ^f																					
30 Prince	35	12	23	26.3																					
31 Richard	30	6	24	23.3																					
32 Denholm	30	7	23	20.9																					
33 Ruddell	25	6	19	19.3 ^d																					
34 Alticane	40	6	34	21.4																					
35 Glenbush	30	7	23	20.3																					
36 Fielding	30	8	22	21.6 ⁱ																					
37 Mont Nebo	30	20	10	24.6 ⁱ																					
<i>Villages</i>																									
38 Whitkow	30	5	25	21.2 ⁱ																					
39 Mullingar	28	7	21	18.9																					
40 Holbein	40	18	22	26.8 ⁱ																					
41 Parkside	25	7	18	20.3 ⁱ																					
42 Makwa	25	12	13	18.3 ^g																					

See footnotes at end of table

(continued)

TABLE 2.8 TEN-YEAR AVERAGE YIELDS OF SPRING WHEAT, DURUM, OATS, BARLEY AND FLAXSEED BY DELIVERY POINT, 1962-71 (concluded)

Delivery Point	Spring Wheat			Durum			Oats			Barley			Flaxseed		
	High	Low	Ten-Year Average	High	Low	Ten-Year Average	High	Low	Ten-Year Average	High	Low	Ten-Year Average	High	Low	Ten-Year Average
- bushels per acre -															
43 Livelong	24	9	15	24	10	18.1	50	15	35	35	20	15	10	10	0
44 Vawn	30	10	20	20	10	16.7 ^c	80	35	45	48.3 ⁱ	45	30	15	5	0
45 Krydor	30	7	23	25	25	23.3 ⁱ	75	10	65	56.7 ⁱ	45	7	38	20	5
46 Medstead	20	5	15	20	20	14.7	50	10	40	35.5	50	8	42	15	5
47 Speers	40	10	30	40	25	27.1 ⁱ	80	15	65	48.9 ⁱ	60	12	48	20	8
48 Mayfair	40	10	30	30	30	30.0 ^c	80	20	60	45.6	55	15	48	15	0
49 Maymont	30	6	24	30	20	25.0 ^b	60	1	59	40.6	45	10	35	15	0
50 Mervin	25	5	20	25	25	25.0 ^a	50	5	45	31.0	40	10	30	20	10
51 Meota	40	18	22	35	25	30.0 ^c	70	25	45	50.0	60	20	40	6	14
52 Shell Lake	30	10	20	28	4	20.8	60	20	40	45.5	50	20	30	15	5
53 Rabbit Lake	35	8	27	28	4	22.8	60	20	40	45.5	50	20	30	15	5
54 Marcelin	27	10	17	21.3 ^h	24	19.5 ^f	60	15	45	41.3 ^h	45	10	35	20	15
Towns															
55 Debben	25	12	13	25	10	18.9 ⁱ	55	20	30	39.1	40	14	26	15	6
56 Leoville	30	8	22	20	15	20.0 ⁱ	65	20	45	43.3 ⁱ	50	15	35	20	12
57 Borden	30	10	20	25	7	20.9 ⁱ	70	15	55	41.7 ⁱ	60	10	50	15	8
58 Edam	25	7	18	25	8	20.2 ⁱ	60	15	45	40.6 ⁱ	45	10	35	20	5
59 Radisson	30	8	22	30	20	21.6	60	10	50	43.0	50	12	38	15	10
60 Canwood	35	15	20	20	20	20.8	50	25	25	43.0	60	25	35	15	14
61 Glaslyn	25	6	19	20	0	20.0 ^a	50	25	25	40.6 ⁱ	50	15	35	20	10
62 Hafford	25	7	18	25	1	18.1 ⁱ	60	20	40	40.6 ⁱ	50	15	35	20	10
63 Big River	30	5	25	11	10	6.0 ^b	60	1	59	39.9	40	8	32	15	0
64 Turtleford	25	10	15	40	20	18.3	60	25	35	44.5	40	10	30	20	10
65 Leask	35	12	23	24.7	20	18.9 ^g	60	25	35	40.7 ^g	45	20	25	15	0
Greater Towns															
66 Spiritwood	30	10	20	30	20	20.6	60	25	35	44.8	50	25	25	20	6
67 Shellbrook	35	17	18	30	0	23.9	60	20	40	43.5	45	25	20	10	0
68 Meadow Lake	35	12	23	22.2	30	30.0 ^a	50	25	25	40.5	40	15	25	20	10
Cities															
69 North Battleford	35	12	23	24.7	25	25.0 ^c	70	20	50	47.0	45	20	25	22	10
Study Area Total	40	4	36	20.7 ^j	40	23.2 ^j	90	5	85	40.8 ^j	60	5	55	40	37

^a 1-year average
^b 2-year average
^c 3-year average
^d 4-year average
^e 5-year average
^f 6-year average
^g 7-year average
^h 8-year average
ⁱ 9-year average
^j Calculated as an average of the above averages weighted by the number of years each represents.

Source: Canadian Wheat Board, Winnipeg.

Protein Content of Wheat

Regulations under the new Canada Grain Act incorporate protein content into the grading system. Although other quality factors are considered by millers and bakers, they pay close attention to the protein content of wheat.

Table 2.9 shows the protein content for samples of wheat by delivery point over a ten-year period. Totals for both the study area and the province are also given. It is evident that protein content varies considerably from year to year and from delivery point to delivery point. On the whole, protein levels in Saskatchewan and in the study area were highest in 1964. The lowest average protein content occurred in 1966 for the province and in 1970 for the study area. The lowest percentage in the study area, 9.7, was recorded at Shell Lake in 1968 and at Debden in 1970. These figures were still above the provincial lows of 9.5 percent and 8.8 percent for those years. The highest level in the study area, 18.0 percent, recorded at Vawn in 1964, was below the provincial high of 19.3 percent in the same year. The majority of the readings are in the 11.0 to 15.0 percent range.

In any given year, the number of samples at a particular delivery point ranges from one to ten with most being from three to five samples. Data that were based on fewer than three samples have been omitted from the table.

TABLE 2.9 PROTEIN CONTENT OF HARD RED SPRING WHEAT BY DELIVERY POINT, 1962 TO 1971

Delivery Point	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range
<i>Too Small to Classify</i>	*	*	Closed	*	Closed	-	-	n.a.	Closed	-
1 Hartwell	*	*	*	*	Closed	-	-	-	-	-
2 Cameo	*	*	*	*	Closed	-	-	-	-	-
3 Bournemouth	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	n.a.	n.a.	Closed
4 Dulwich	n.a.	n.a.	n.a.	n.a.	Closed	-	-	-	-	-
5 Cleaves	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
6 Omeaux	13.8	13.4-14.4	-	-	-	-	-	-	-	-
7 Ordale	13.8	13.6-13.9	-	-	-	-	-	-	-	-
8 Tallman	*	15.8	14.8-16.8	14.2	13.4-14.8	14.6	13.5-16.3	14.3	13.0-15.5	n.a.
9 Kilwinning	*	15.8	14.8-16.8	14.8	13.7-15.3	14.6	13.5-16.3	14.3	13.0-15.5	n.a.
10 Redberry	14.7	13.9-15.4	-	-	-	-	-	-	-	-
11 Scentgrass	14.7	13.9-15.4	-	-	-	-	-	-	-	-
12 Polwarth	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
13 Cater	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
14 Brada	14.6	13.0-16.0	15.1	14.3-15.7	12.9	11.7-14.6	14.4	13.2-15.9	14.4	13.3-15.5
15 Lilac	15.2	14.5-16.3	16.0	14.8-17.1	14.3	11.2-14.8	14.5	13.5-15.1	14.5	13.5-15.1
16 Ifley	-	-	-	-	-	-	-	-	-	-
17 Ranger	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<i>Hamlets</i>										
18 Rathertleigh	-	-	-	-	-	-	-	-	-	-
19 Redfield	15.6	14.8-16.9	14.6	11.6-16.8	16.0	15.3-17.4	14.8	13.7-15.8	12.4	12.1-12.7
20 Hamlin	13.9	13.5-14.6	-	-	-	-	-	-	-	-
21 Crutwell	13.6	11.8-15.6	16.2	15.1-17.5	n.a.	-	-	-	-	-
22 Cavalier	14.8	14.1-15.0	-	-	-	-	-	-	-	-
23 Keatley	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
24 Bapaume	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
25 Robinhood	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
26 Fairholme	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
27 Sandwith	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
28 Wildred	15.1	14.7-15.6	-	-	-	-	-	-	-	-
29 Belbutte	15.1	14.7-15.6	-	-	-	-	-	-	-	-
30 Prince	14.9	13.5-16.3	15.6	12.9-16.9	14.6	13.2-15.4	15.1	12.7-17.9	13.0	11.6-14.1
31 Richard	16.0	15.6-16.7	15.0	13.6-16.4	17.1	15.8-17.9	14.9	13.6-15.7	13.9	11.6-15.6
32 Denholm	n.a.	n.a.	-	-	-	-	-	-	-	-
33 Ruddell	n.a.	n.a.	-	-	-	-	-	-	-	-
34 Alticane	-	-	-	-	-	-	-	-	-	-
35 Glenbush	15.9	14.7-17.0	13.9	13.3-15.1	16.6	15.9-17.3	13.0	12.2-13.0	10.8	10.2-11.9
36 Fielding	14.4	13.1-15.3	-	-	-	-	-	-	-	-
37 Mont Nebo	-	-	-	-	-	-	-	-	-	-
<i>Villages</i>										
38 Whitkow	13.8	12.5-14.9	13.4	12.8-14.1	-	-	-	-	-	-
39 Mullingar	13.8	12.0-15.2	13.9	12.2-15.1	15.3	14.2-15.9	13.1	12.3-13.7	12.8	11.5-14.6
40 Holberton	14.0	12.8-15.2	14.2	13.5-15.5	-	-	-	-	-	-
41 Parkside	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
42 Pakwa	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
43 Livelong	15.7	14.8-16.5	14.2	13.1-16.1	16.0	13.8-18.0	12.9	12.6-13.0	14.0	13.6-15.3
44 Vawn	14.8	12.5-16.2	15.0	14.0-16.5	15.2	14.4-15.6	13.8	13.0-15.0	12.7	11.4-13.9
45 Krydor	-	-	-	-	-	-	-	-	-	-
46 Medstead	15.2	13.9-16.9	15.2	12.9-16.9	16.0	15.6-16.8	14.4	12.8-16.5	-	-
47 Speers	-	-	-	-	-	-	-	-	-	-
48 Mayfair	-	-	-	-	-	-	-	-	-	-
49 Maymont	-	-	-	-	-	-	-	-	-	-
50 Mervin	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table

(continued)

TABLE 2.9 PROTEIN CONTENT OF HARD RED SPRING WHEAT BY DELIVERY POINT, 1962 TO 1971 (concluded)

Delivery Point	1962		1963		1964		1965		1966		1967		1968		1969		1970		1971	
	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range
- percent -																				
51 Meota	14.3	13.4-15.7	13.2	12.0-14.9	-	-	-	12.3	11.4-14.1	13.9	13.2-15.8	14.4	14.0-14.8	-	9.7-11.5	-	-	-	13.3	12.0-14.2
52 Shell Lake	13.1	10.9-14.9	n.a.	n.a.	-	-	12.3	11.4-14.1	12.0	10.1-13.7	13.8	12.8-14.9	10.6	9.7-11.5	-	-	-	-	-	-
53 Rabbit Lake	13.2	12.3-13.6	12.3	10.0-13.5	-	-	-	-	12.4	11.2-13.7	14.5	12.9-15.7	13.9	11.7-16.9	14.0	12.2-15.6	11.9	11.3-12.5	14.4	12.2-15.6
54 Marcellin	14.3	12.8-15.3	13.4	11.0-15.3	15.2	13.8-16.3	13.8	12.8-14.9	12.4	11.2-13.7	14.5	12.9-15.7	13.9	11.7-16.9	14.0	12.2-15.6	11.9	11.3-12.5	14.4	12.2-15.6
Towns																				
55 Debben	12.8	11.5-14.0	-	-	-	-	12.4	11.2-13.3	11.4	10.0-13.1	12.7	11.6-14.2	12.2	10.7-13.6	14.1	13.3-14.9	10.8	9.7-11.6	-	-
56 Leoville	-	-	n.a.	n.a.	15.5	15.2-15.9	15.2	13.0-16.7	12.6	11.2-14.1	14.5	13.1-17.3	14.2	13.4-15.1	13.1	11.6-14.9	13.2	12.4-14.6	12.2	11.2-12.9
57 Borden	13.9	13.5-14.3	14.3	12.8-15.8	14.4	13.4-16.1	14.6	13.1-16.5	-	-	13.4	11.8-17.7	13.6	12.9-14.1	16.2	15.3-16.9	13.2	11.2-14.3	13.8	12.8-15.0
58 Edam	13.8	13.0-14.4	14.4	13.4-16.1	16.6	16.6-16.7	14.6	13.1-16.5	-	-	13.1	12.6-17.3	13.6	12.9-14.1	14.7	12.4-16.0	12.2	11.7-12.9	n.a.	n.a.
59 Radisson	14.2	12.4-15.5	14.8	12.5-16.3	-	-	13.0	11.7-14.6	13.0	11.2-15.5	13.2	12.4-13.8	13.6	12.9-14.1	12.8	11.9-14.3	12.0	10.3-14.3	11.6	10.1-13.7
60 Canwood	13.7	12.2-15.6	12.2	11.6-13.3	-	-	13.7	12.3-15.4	12.4	11.0-13.7	13.7	12.5-14.7	15.1	14.3-16.0	11.7	10.5-13.0	11.7	10.5-13.0	14.0	12.6-15.5
61 Glaslyn	-	-	-	-	15.2	14.4-16.3	13.1	12.3-14.0	12.9	11.6-13.7	13.0	11.2-14.8	14.5	13.0-15.7	14.0	11.4-17.1	12.8	11.3-15.6	13.3	11.4-14.3
62 Hafford	14.0	12.5-15.6	13.7	12.3-15.3	n.a.	n.a.	n.a.	n.a.	-	-	13.0	11.2-14.8	-	-	-	-	12.8	11.3-15.6	13.3	11.4-14.3
63 Big River	-	-	n.a.	n.a.	15.3	14.7-15.9	15.3	14.7-15.9	-	-	13.6	12.5-14.3	-	-	-	-	12.8	11.3-15.6	13.3	11.4-14.3
64 Turtleford	14.6	13.4-15.6	-	-	15.3	14.7-15.9	15.3	14.7-15.9	-	-	13.6	12.5-14.3	-	-	-	-	12.8	11.3-15.6	13.3	11.4-14.3
65 Leask	14.4	13.9-14.9	14.6	13.2-17.5	15.5	14.0-16.6	14.1	13.1-15.3	12.6	11.2-13.5	14.4	12.4-15.7	12.3	11.2-13.6	13.8	12.6-15.3	12.3	10.8-13.4	13.2	11.5-14.3
Greater Towns																				
66 Spiritwood	13.8	13.0-14.7	12.6	11.4-13.4	15.9	15.1-16.7	13.4	13.1-13.9	11.5	10.6-12.1	12.7	12.0-13.1	11.8	11.1-13.0	13.3	12.9-14.1	-	-	-	-
67 Shellbrook	12.8	10.0-14.4	13.5	11.6-14.9	15.8	14.6-17.3	14.0	12.9-15.6	12.4	11.1-14.1	13.4	10.9-14.9	13.0	11.1-14.9	14.5	13.4-15.2	12.5	10.7-14.3	13.2	11.1-14.7
68 Meadow Lake	12.6	11.0-13.9	13.0	10.5-15.3	14.2	11.8-15.7	14.3	11.8-16.0	15.0	13.6-16.7	12.4	10.4-14.2	12.6	12.0-16.2	14.2	11.7-15.6	12.2	11.5-12.8	12.8	11.4-13.5
Cities																				
69 North Battleford	15.3	15.2-15.4	15.3	14.3-16.8	-	-	14.1	12.7-17.0	13.0	10.9-15.0	n.a.	n.a.	15.1	13.6-16.3	13.8	11.6-14.7	-	-	14.3	13.2-15.5
Total Study Area ^a	14.2	10.0-17.0	14.2	10.0-17.5	15.6	11.8-18.0	13.8	10.0-17.9	12.8	10.0-17.3	13.9	10.4-17.3	13.2	9.7-16.9	14.0	10.8-17.1	12.4	9.7-15.6	13.3	10.1-15.8
Saskatchewan Total	14.2	8.6-18.6	14.6	8.5-19.2	15.3	10.4-19.3	13.7	9.5-18.9	13.3	9.5-17.7	14.1	9.0-19.1	14.2	9.5-19.7	14.0	9.1-19.3	13.4	8.8-16.8	13.7	9.7-19.0

* Storage only

- Indicates data were based on fewer than three samples.

n.a. - Not available

^aAverages weighted by number of samples.

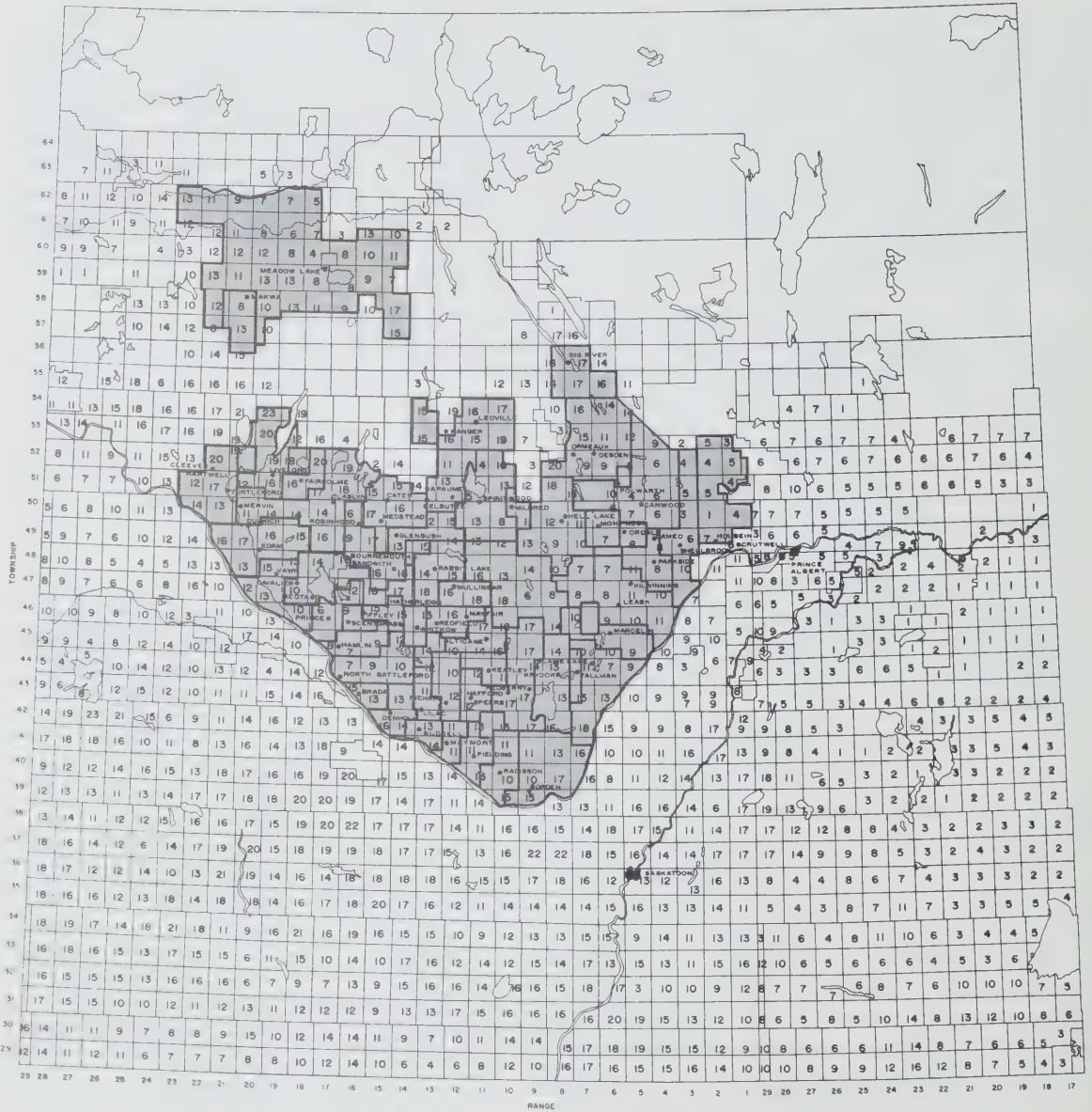
Source: Grain Research Laboratory, Canadian Grain Commission, Winnipeg.

Prairie Farm Assistance Act Payments

The Prairie Farm Assistance Administration (PFAA) was set up under an Act of Parliament in 1939 to provide limited crop insurance for grain farmers. At present, the program is gradually being phased out in favour of other forms of crop insurance administered by the provinces. Although a one-percent levy on all grain sold by Prairie farmers without other crop insurance has not been collected since August 1, 1971, payments under the program have continued to farmers in areas not covered by crop insurance. In 1973, a portion of Alberta was the only area where other crop insurance was not yet available.

The map in Figure 2.5 gives a rough outline of the land tributary to each delivery point in the study area. It shows the number of times during the past 32 years that PFAA payments for crop failure were made to farmers. In explanation of the figures appearing in each township, the number "12", for example, does not mean that all farmers received payments in 12 of the 32 years; rather it means that some payments were made in the township in 12 of the 32 years. The map thus indicates the frequency of crop failure in all parts of the region.

PFAA payments were made to all townships in the hinterlands of the delivery points. There was, however, considerable variation in the number of payments: farmers in a township north of Holbein received only one payment, while farmers in a township north of Livelong received as many as 23 payments.



PRAIRIE FARM ASSISTANCE ACT PAYMENTS 1939-1970

Figure 2.5

Farm Size and Land Tenure

The distribution of grain farm sizes in the Shellbrook-Turtleford region is shown in Table 2.10. Class sizes are ordered in intervals of 160 acres so that 160 or one of its multiples falls at the midpoint of each class size. More detailed statistics of farm sizes, grouped by delivery point, are given in Table 2.11 for the crop years 1962-63 and 1969-70.

The number of farms in this context is actually the number of grain delivery permits, and farm sizes are derived from the acreages recorded in each permit book. To the extent that individual farm operational units are, in some instances, associated with more than one delivery permit, farm numbers are overstated while farm sizes are understated. With this in mind, the total number of farms decreased by 1,288 farms or 16.2 percent. In both 1962-63 and in 1969-70 the greatest number of farms fell into the 241-400 acre size group, 27.2 percent and 20.9 percent respectively. The mode, that size of farm occurring most frequently in the study area, was 320 acres in both years (see footnotes to Table 2.11). In each year, Table 2.10 shows there is a greater concentration of farms at the lower end of the size groups than at the upper end, resulting in a skewed distribution.

The mean farm size for the study area (Table 2.11) increased from 494 acres to 605 acres or about 22 percent. The mean increased at every delivery point except Polwarth.

The median farm size in the study area increased from 470 acres to 480 acres. This means that in 1962-63 about half the total number of farms had less than 470 acres. Of course, there were some farms with exactly 470 acres. In 1969-70 this half-way point rose to 480 acres. Considering that the median as well as the mean increased, it can be concluded that the number of large farms increased relative to the number of small farms.

The general trend with respect to land tenure has been towards a substantially greater percentage of land being owned rather than being rented by farm operators (Table 2.12). For the total study area, the percentage of owned land increased from 73.5 percent in 1962-63 to 80.3 percent in 1969-70. In 1969-70 the percentages of owned land ranged from 68.7 percent at Holbein to 90.9 percent at Mildred.

TABLE 2.10 DISTRIBUTION OF FARM SIZES IN THE STUDY AREA, CROP YEARS
1962-63 AND 1969-70

Size Groups (acres)	1962-63		1969-70	
	Number of Farms	Percent of Total	Number of Farms	Percent of Total
1 - 240	1,615	20.35	1,104	16.51
241 - 400	2,159	27.21	1,388	20.88
401 - 560	1,664	20.97	1,216	18.29
561 - 720	1,096	13.81	994	14.95
721 - 880	590	7.44	649	9.76
881 - 1,040	337	4.25	457	6.87
1,041 - 1,200	197	2.48	292	4.39
1,201 - 1,360	119	1.50	185	2.78
1,361 - 1,520	51	0.64	119	1.79
1,521 - 1,680	32	0.40	75	1.13
1,681 - 1,840	24	0.30	48	0.72
1,841 - 2,000	18	0.23	31	0.47
2,001 - 2,160	11	0.14	25	0.38
2,161 - 2,320	5	0.06	16	0.24
2,321 - 2,480	3	0.04	8	0.12
2,481 - 2,640	5	0.06	7	0.11
2,641 - 2,800	1	0.01	10	0.15
2,801 - 2,960	1	0.01	4	0.06
2,961 - 3,120	1	0.01	4	0.06
3,121 - 3,280	1	0.01	4	0.06
3,281 - 3,440	3	0.04	4	0.06
3,441 and over	3	0.04	8	0.12
Study Area Total	7,936	100.00	6,648	100.00

Source: Canadian Wheat Board, Winnipeg.

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

Delivery Point	No. of Farms	Mean Size	Maximum Size	Minimum Size	Median Size	Modal Size Group(s)
- acres -						
<i>Too Small to Classify</i>						
1 Hartwell						
1962-63	Storage only					
1969-70	Closed					
2 Cameo						
1962-63	Storage only					
1969-70	Closed					
3 Bournemouth						
1962-63	22	480	1,120	160	429	241-400
1969-70	24	546	1,280	160	474	401-560
4 Dulwich						
1962-63	30	609	1,920	160	480	241-400
1969-70	Closed					
5 Cleeves						
1962-63	41	540	1,151	149	480	401-560
1969-70	Closed					
6 Ormeaux						
1962-63	43	505	1,364	72	460	241-400
1969-70	Closed					
7 Ordale						
1962-63	58	451	1,274	80	320	241-400
1969-70	32	500	1,231	158	480	241-400
8 Tallman						
1962-63	91	426	1,760	50	403	401-560
1969-70	51	460	1,250	150	352	1-240
9 Kilwinning						
1962-63	Storage only					
1969-70	Closed					
10 Redberry						
1962-63	27	310	640	80	320	1-240, 241-400
1969-70	Storage only					
11 Scentgrass						
1962-63	51	478	1,760	160	320	241-400
1969-70	45	639	2,060	148	516	241-400
12 Polwarth						
1962-63	30	467	1,562	35	323	241-400
1969-70	29	430	1,152	20	328	1-240

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(continued)

Delivery Point	No. of Farms	Mean Size	Maximum Size	Minimum Size	Median Size	Modal Size Group(s)
- acres -						
13 Cater						
1962-63	36	412	1,120	104	320	1-240, 241-400
1969-70	Storage only					
14 Brada						
1962-63	47	550	1,421	129	480	241-400
1969-70	37	741	1,543	240	640	561-720
15 Lilac						
1962-63	61	574	1,600	160	480	401-560
1969-70	52	614	1,440	160	480	241-400, 561-720
16 Iffley						
1962-63	75	545	3,200	148	480	241-400
1969-70	36	579	2,947	160	480	241-400
17 Ranger						
1962-63	54	400	1,778	109	320	241-400
1969-70	27	516	1,773	160	320	241-400
<i>Hamlets</i>						
18 Hatherleigh						
1962-63	30	475	960	149	470	241-400
1969-70	34	574	1,760	158	480	241-400
19 Redfield						
1962-63	43	606	2,156	160	480	241-400
1969-70	38	746	2,796	160	640	561-720
20 Hamlin						
1962-63	91	507	1,520	160	460	241-400
1969-70	87	636	2,320	158	480	241-400
21 Crutwell						
1962-63	51	378	1,920	80	320	1-240
1969-70	Storage only					
22 Cavalier						
1962-63	67	703	2,282	118	570	241-400
1969-70	66	741	3,200	118	636	1-240, 241-400
23 Keatley						
1962-63	80	475	1,280	160	480	241-400
1969-70	68	592	1,320	37	637	241-400
24 Bapaume						
1962-63	60	566	1,760	80	480	241-400
1969-70	81	680	2,000	80	640	241-400

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(continued)

Delivery Point	No. of Farms	Mean Size	Maximum Size	Minimum Size	Median Size	Modal Size Group(s)
- acres -						
25 Robinhood						
1962-63	73	560	1,600	45	480	1-240
1969-70	54	749	2,080	160	767	241-400 721-880, 881-1,040
26 Fairholme						
1962-63	59	479	1,160	150	480	1-240
1969-70	50	725	2,240	160	640	241-400
27 Sandwith						
1962-63	35	535	1,280	155	580	561-720
1969-70	41	608	1,440	27	628	1-240, 241-400, 561-720
28 Mildred						
1962-63	78	508	1,920	160	445	241-400
1969-70	40	697	2,055	149	634	561-720
29 Belbutte						
1962-63	54	550	1,879	13	480	241-400
1969-70	Storage only					
30 Prince						
1962-63	96	505	2,440	40	394	241-400
1969-70	99	667	3,396	143	480	401-560
31 Richard						
1962-63	115	512	1,281	138	480	241-400
1969-70	93	618	1,927	138	480	401-560
32 Denholm						
1962-63	85	600	2,080	125	480	241-400
1969-70	90	694	2,400	125	640	241-400, 561-720
33 Ruddell						
1962-63	43	529	1,280	160	480	401-560
1969-70	35	660	1,360	35	630	561-720
34 Alticane						
1962-63	105	418	2,080	63	320	241-400
1969-70	54	539	1,120	63	480	241-400
35 Glenbush						
1962-63	74	507	1,280	100	480	241-400
1969-70	48	698	2,080	159	637	561-720
36 Fielding						
1962-63	63	664	2,560	35	480	401-560
1969-70	53	737	2,720	12	535	401-560

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(continued)

Delivery Point	No. of Farms	Mean Size	Maximum Size	Minimum Size	Median Size	Modal Size Group(s)
- acres -						
37 Mont Nebo						
1962-63	74	511	3,287	55	465	401-560
1969-70	40	719	2,337	51	607	401-560
<i>Villages</i>						
38 Whitkow						
1962-63	150	479	1,878	128	469	241-400
1969-70	61	565	1,878	155	472	241-400
39 Mullingar						
1962-63	92	506	1,760	158	480	241-400, 401-560
1969-70	49	619	1,561	160	480	241-400
40 Holbein						
1962-63	216	418	2,561	19	320	1-240
1969-70	192	641	4,960	35	480	241-400
41 Parkside						
1962-63	128	504	1,755	40	450	241-400
1969-70	109	537	1,521	40	480	241-400
42 Makwa						
1962-63	124	426	1,760	120	320	1-240
1969-70	104	551	1,440	158	480	401-560
43 Livelong						
1962-63	101	634	2,560	80	512	1-240, 561-720
1969-70	84	765	2,720	73	640	241-400, 561-720
44 Vawn						
1962-63	90	662	1,708	108	480	401-560
1969-70	86	813	8,990	128	640	1-240
45 Krydor						
1962-63	208	357	1,145	140	320	241-400
1969-70	185	405	1,227	34	320	1-240
46 Medstead						
1962-63	94	541	1,526	113	480	401-560
1969-70	117	660	3,040	160	520	401-560
47 Speers						
1962-63	89	568	3,040	160	480	241-400
1969-70	87	601	2,240	10	480	241-400
48 Mayfair						
1962-63	94	541	2,080	160	480	241-400
1969-70	89	626	3,040	102	480	241-400

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(continued)

Delivery Point	No. of Farms	Mean Size	Maximum Size	Minimum Size	Median Size	Modal Size Group(s)
- acres -						
49 Maymont						
1962-63	93	542	1,440	148	480	241-400
1969-70	86	616	1,546	19	480	401-560
50 Mervin						
1962-63	96	668	1,688	158	640	401-560
1969-70	79	814	2,720	80	720	561-720
51 Meota						
1962-63	53	559	2,096	9	480	241-400
1969-70	36	751	5,596	9	480	241-400
52 Shell Lake						
1962-63	204	475	1,440	159	480	401-560
1969-70	176	564	2,560	154	480	241-400
53 Rabbit Lake						
1962-63	116	462	1,120	150	480	241-400
1969-70	147	578	2,075	85	481	241-400
54 Marcelin						
1962-63	164	473	2,394	95	435	241-400
1969-70	137	582	3,378	130	480	241-400
<i>Towns</i>						
55 Debden						
1962-63	199	461	1,720	75	458	401-560
1969-70	203	649	3,560	80	577	561-720
56 Leoville						
1962-63	155	507	2,290	2	449	241-400
1969-70	134	634	3,424	16	630	1-240
57 Borden						
1962-63	220	504	1,920	40	480	401-560
1969-70	189	581	1,920	47	480	241-400
58 Edam						
1962-63	120	773	4,074	160	710	721-880
1969-70	144	808	3,200	60	640	401-560
59 Radisson						
1962-63	143	546	1,750	159	480	561-720
1969-70	132	601	1,920	140	480	401-560
60 Canwood						
1962-63	285	463	1,600	20	442	241-400
1969-70	276	547	2,819	25	480	241-400

(continued)

TABLE 2.11 AVERAGE ACREAGE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(concluded)

Delivery Point	No. of Farms	Mean Size	Maximum Size	Minimum Size	Median Size	Modal Size Group(s)
- acres -						
61 Glaslyn						
1962-63	197	529	2,720	160	480	241-400
1969-70	163	619	2,056	148	480	241-400
62 Hafford						
1962-63	329	391	1,200	53	320	241-400
1969-70	302	471	1,921	80	412	241-400
63 Big River						
1962-63	110	360	954	118	320	241-400
1969-70	110	481	1,600	119	474	241-400
64 Turtleford						
1962-63	119	616	3,340	37	490	401-560
1969-70	141	764	3,040	158	640	561-720
65 Leask						
1962-63	300	504	6,220	28	412	241-400
1969-70	236	681	9,733	70	551	241-400
<i>Greater Towns</i>						
66 Spiritwood						
1962-63	237	472	3,360	84	460	241-400
1969-70	234	623	4,160	29	480	401-560
67 Shellbrook						
1962-63	303	514	2,240	60	480	241-400
1969-70	260	581	2,720	8	480	401-560
68 Meadow Lake						
1962-63	930	433	10,880	70	320	1-240
1969-70	749	546	7,920	80	480	1-240
<i>Cities</i>						
69 North Battleford						
1962-63	135	536	2,080	123	480	241-400
1969-70	147	643	2,814	45	480	1-240
Total Study Area						
1962-63	7,936	494 ^a	10,880	2	470	241-400 ^b
1969-70	6,648	605 ^a	9,733	8	480	241-400 ^b

^aThe standard deviation for the total study area in 1962-63 was 355 acres and in 1969-70 was 469 acres.

^bThe modal size for the total study area in both crop years was 320 acres.

Source: Canadian Wheat Board, Winnipeg.

TABLE 2.12 LAND TENURE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

Delivery Point	Percent Owned 1962-63	Percent Owned 1969-70	Percent Rented 1962-63	Percent Rented 1969-70
<i>Too Small to Classify</i>				
1 Hartwell	*	Closed	*	Closed
2 Cameo	*	Closed	*	Closed
3 Bournemouth	70.9	84.2	29.1	15.8
4 Dulwich	76.4	Closed	23.6	Closed
5 Cleeves	64.9	Closed	35.1	Closed
6 Ormeaux	81.0	Closed	19.0	Closed
7 Ordale	75.4	84.8	24.6	15.2
8 Tallman	82.1	84.9	17.9	15.1
9 Kilwinning	*	Closed	*	Closed
10 Redberry	84.1	*	15.9	*
11 Scentgrass	67.3	79.3	32.7	20.7
12 Polwarth	67.3	88.6	32.7	11.4
13 Cater	67.3	*	32.7	*
14 Brada	72.1	80.1	27.9	19.9
15 Lilac	78.3	84.9	21.7	15.1
16 Iffley	79.5	82.2	20.5	17.8
17 Ranger	67.7	87.2	32.3	12.8
<i>Hamlets</i>				
18 Hatherleigh	75.6	88.2	24.4	11.8
19 Redfield	79.6	83.1	20.4	16.9
20 Hamlin	79.6	81.8	20.4	18.2
21 Crutwell	70.3	*	29.7	*
22 Cavalier	80.4	87.4	19.6	12.6
23 Keatley	72.3	76.9	27.7	23.1
24 Bapaume	68.6	75.0	31.4	25.0
25 Robinhood	51.6	69.3	48.4	30.7
26 Fairholme	68.9	82.5	31.1	17.5
27 Sandwith	71.0	74.5	29.0	25.5
28 Mildred	66.8	90.9	33.2	9.1
29 Belbutte	62.4	*	37.6	*
30 Prince	81.0	82.2	19.0	17.8
31 Richard	86.0	87.5	14.0	12.5
32 Denholm	67.7	74.6	32.3	25.4
33 Ruddell	77.3	84.8	22.7	15.2
34 Alticane	71.3	75.2	28.7	24.8
35 Glenbush	80.6	83.8	19.4	16.2
36 Fielding	78.3	84.9	21.7	15.1
37 Mont Nebo	75.0	69.1	25.0	30.9
38 Whitkow	84.1	89.2	15.9	10.8
39 Mullingar	74.2	82.9	25.8	17.1

See footnotes at end of table

(continued)

TABLE 2.12 LAND TENURE OF FARMS IN THE STUDY AREA, 1962-63 AND 1969-70
(concluded)

Delivery Point	Percent Owned		Percent Rented	
	1962-63	1969-70	1962-63	1969-70
40 Holbein	68.7	68.7	31.3	31.3
41 Parkside	67.4	78.2	32.6	21.8
42 Makwa	72.2	82.7	27.8	17.3
43 Livelong	79.5	79.6	20.5	20.4
44 Vawn	69.4	86.6	30.6	13.4
45 Krydor	76.4	81.6	23.6	18.4
46 Medstead	69.0	75.8	31.0	24.2
47 Speers	81.5	82.4	18.5	17.6
48 Mayfair	69.5	74.2	30.5	25.8
49 Maymont	73.7	81.0	26.3	19.0
50 Mervin	74.9	81.1	25.1	18.9
51 Meota	83.6	84.7	16.4	15.3
52 Shell Lake	70.5	77.7	29.5	22.3
53 Rabbit Lake	69.4	85.5	30.6	14.5
54 Marcelin	74.1	75.3	25.9	24.7
<i>Towns</i>				
55 Debden	76.1	79.9	23.9	20.1
56 Leoville	80.4	83.5	19.6	16.5
57 Borden	76.5	88.5	23.5	11.5
58 Edam	75.0	82.8	25.0	17.2
59 Radisson	74.0	79.2	26.0	20.8
60 Canwood	73.0	78.8	27.0	21.2
61 Glaslyn	67.0	74.8	33.0	25.2
62 Hafford	75.3	79.5	24.7	20.5
63 Big River	65.7	74.8	34.3	25.2
64 Turtleford	81.9	84.0	18.1	16.0
65 Leask	75.8	79.9	24.2	20.1
<i>Greater Towns</i>				
66 Spiritwood	70.2	79.3	29.8	20.7
67 Shellbrook	72.6	77.7	27.4	22.3
68 Meadow Lake	69.0	81.4	31.0	18.6
<i>Cities</i>				
69 North Battleford	74.5	76.2	25.5	23.8
Study Area Total	73.5	80.3	26.5	19.7

*Storage only.

Source: Canadian Wheat Board, Winnipeg.

PART III

GRAIN MARKETING AND HANDLING CHARACTERISTICS

Producers' Choice of Alternate Delivery Points

When the Canadian Wheat Board changed its delivery regulations in 1970-71, farmers were permitted to specify a second delivery point for Board grains; i.e., each producer could haul his grain to either of two delivery points. An examination of the individual choices that farmers have made throws light on some of the factors that they consider when weighing the advantages and disadvantages of different delivery points.

Table 3.1 is a partial breakdown of the choices made by the 6,339 farmers who deliver grain to points in the Shellbrook-Turtleford study area. Although it is not easy to analyze the data for such things as best road approach, loyalty to a particular grain handling company, and the availability of particular shopping or service facilities, the following observations may, however, be made:

1. Farmers who hauled to smaller communities were more inclined to name an alternate point than those who hauled to larger communities.
2. Over 78 percent of the farmers who chose an alternate point chose the next nearest elevator.
3. About 21 percent of the farmers named a larger center as an alternate point.
4. Almost 36 percent of the farmers who chose an alternate point chose one located in a different loading block.

TABLE 3.1 PRODUCERS' CHOICE OF ALTERNATE DELIVERY POINTS, 1970-71

Delivery Point	Number of Farmers	Percent of Farmers Not Choosing Alternate	Number of Farmers Choosing Alternate	Alternate Chosen		Loading Block Chosen		
				Next Nearest Point	Larger Center ^a	Same	Different	Double ^b
- percent of farmers choosing alternate -								
<i>Too Small to Classify</i>								
1 Hartwell	Closed							
2 Cameo	Closed							
3 Bournemouth	Closed							
4 Dulwich	Closed							
5 Cleeves	Closed							
6 Ormeaux	Closed							
7 Ordale	Closed							
8 Tallman	50	2.0	49	98.0	93.9	98.0	2.0	2.0
9 Kilwinning	Closed							
10 Redberry	Closed for storage							
11 Scentgrass	45	0.0	45	86.7	11.1	22.2	77.8	0.0
12 Polwarth	31	41.9	18	100.0	0.0	100.0	0.0	0.0
13 Cater	Closed for storage							
14 Brada	36	27.7	35	85.7	60.0	34.3	65.7	0.0
15 Lilac	49	0.0	49	75.5	24.5	75.5	24.5	0.0
16 Iffley	41	0.0	41	90.2	24.4	41.5	58.5	0.0
17 Ranger	Closed							
<i>Hamlets</i>								
18 Hatherleigh	Closed for storage							
19 Redfield	29	0.0	29	82.8	13.8	6.9	93.1	0.0
20 Hamlin	86	0.0	86	98.8	64.0	4.7	95.3	0.0
21 Crutwell	Closed for storage							
22 Cavalier	65	15.3	64	70.3	0.0	100.0	0.0	0.0
23 Keatley	69	0.0	69	91.3	0.0	11.6	88.4	0.0
24 Bapaume	90	81.1	17	100.0	29.4	29.4	70.6	0.0
25 Robinhood	51	9.8	46	93.5	4.3	26.1	73.9	0.0
26 Fairholme	39	0.0	39	97.4	0.0	100.0	0.0	0.0
27 Sandwith	44	52.3	21	71.4	4.8	66.7	33.3	0.0
28 Mildred	39	20.5	31	100.0	87.1	100.0	0.0	0.0

(continued)

See footnotes at end of table

TABLE 3.1 PRODUCERS' CHOICE OF ALTERNATE DELIVERY POINTS, 1970-71 (continued)

Delivery Point	Number of Farmers	Percent of Farmers Choosing Alternate	Number of Farmers Choosing Alternate	Alternate Chosen		Loading Block Chosen		
				Next Nearest Point	Larger Center ^a	Same	Different	Double ^b
- percent of farmers choosing alternate -								
29 Belbutte								
30 Prince		Closed for storage	77	84.4	15.6	37.7	62.3	0.0
31 Richard	99	22.2	74	86.5	4.1	85.1	14.9	1.4
32 Denholm	90	17.8	66	43.9	56.1	42.4	57.6	0.0
33 Ruddell	85	22.4	31	54.8	35.5	54.8	45.2	0.0
34 Alticane	35	11.4	8	37.5	12.5	37.5	62.5	0.0
35 Glenbush	52	84.6	41	97.6	0.0	78.0	22.0	0.0
36 Fielding	46	10.9	51	92.2	3.9	94.1	5.9	3.9
37 Mont Nebo	52	19.2	29	89.7	10.3	31.0	69.0	0.0
39	39	25.6						
Villages								
38 Whitkow	76	0.0	76	57.9	42.1	15.8	84.2	0.0
39 Mullingar	43	9.3	39	82.1	2.6	94.9	5.1	0.0
40 Holbein	183	10.9	163	98.2	90.8	100.0	0.0	0.0
41 Parkside	94	4.3	90	96.7	75.6	100.0	0.0	0.0
42 Makwa		Closed for storage						
43 Live!ong	76	26.3	56	66.1	0.0	100.0	0.0	0.0
44 Vawn	84	28.4	63	96.8	1.6	98.4	1.6	0.0
45 Krydor	181	47.5	95	57.9	38.9	95.8	4.2	4.2
46 Medstead	111	31.5	76	90.8	5.3	35.5	64.5	4.0
47 Speers	87	34.5	84	88.1	8.3	79.8	20.2	8.3
48 Mayfair	84	19.0	68	64.7	2.9	64.7	35.3	0.0
49 Maymont	85	0.0	85	88.2	3.6	96.4	3.6	1.2
50 Mervin	78	21.8	61	93.4	0.0	100.0	0.0	0.0
51 Meota	36	0.0	36	94.4	2.8	97.2	2.8	0.0
52 Shell Lake	164	59.8	66	66.7	25.8	59.1	40.9	4.5
53 Rabbit Lake	163	43.6	92	68.5	13.0	44.6	55.4	0.0
54 Marcelin	133	36.1	85	98.8	63.5	98.8	1.2	1.2

(continued)

See footnotes at end of table

TABLE 3.1 PRODUCERS' CHOICE OF ALTERNATE DELIVERY POINTS, 1970-71 (concluded)

Delivery Point	Number of Farmers	Percent of Farmers Not Choosing Alternate	Number of Farmers Choosing Alternate	Alternate Chosen		Loading Block Chosen			
				Next Nearest Point	Larger Center ^a	Same	Different	Double ^b	
- percent of farmers choosing alternate -									
<i>Towns</i>									
55 Debdon	201	32.3	136	21.3	2.9	91.2	8.8	1.4	
56 Leoville	142	40.1	85	89.4	43.5	0.0	100.0	1.2	
57 Borden	189	66.7	63	44.4	46.0	52.4	47.6	46.0	
58 Edam	137	39.4	83	85.5	1.2	98.8	1.2	1.2	
59 Radisson	128	20.3	102	85.3	10.8	39.2	10.8	8.8	
60 Canwood	272	29.0	193	69.4	45.6	90.7	9.3	2.6	
61 Glaslyn	168	32.1	114	84.2	5.6	86.0	14.0	0.8	
62 Hafford	286	49.3	145	55.2	17.9	51.7	48.3	16.6	
63 Big River	113	84.1	18	100.0	0.0	100.0	0.0	0.0	
64 Turtleford	136	26.5	100	75.0	2.0	94.0	6.0	3.0	
65 Leask	237	36.3	151	74.8	9.3	81.5	18.5	0.0	
<i>Greater Towns</i>									
66 Spiritwood	223	85.6	32	75.0	12.5	53.1	46.9	12.5	
67 Shellbrook	282	56.4	123	87.8	0.8	95.9	4.1	0.8	
68 Meadow Lake	738	69.4	226	91.2	7.1	0.0	100.0	6.2	
<i>Cities</i>									
69 North Battleford	147	25.2	110	51.8	0.0	14.5	85.5	0.0	
Study Area Total	6,339	38.0	3,932	78.4	21.2	64.3	35.7	3.1	

^a Included are North Battleford, Battleford, Saskatoon, Prince Albert, Spiritwood, Shellbrook, Blaine Lake and Meadow Lake.

^b Saskatoon is in two loading blocks.

Source: Canadian Wheat Board, Winnipeg.

Delivery Permit Books Issued

Table 3.2 shows that the number of permit books issued in the study area decreased by 1,823, 22.9 percent, between 1962-63 and 1971-72. Only eight points had an increase. Bapaume made the greatest advance in relative terms as the number of permit holders grew from 60 to 90, a gain of 50.0 percent. In absolute terms, the increase of 52 permits at Rabbit Lake was the greatest in the study area.

From 1962-63 to 1971-72, a number of elevators closed at hamlets and points "too small to classify" so permit books were no longer issued for those places. The highest percentages of loss for points remaining open were 60.9 at Mullingar and 58.1 at Redfield. The largest absolute losses of permit holders were 195 at Meadow Lake and 78 at Whitkow.

TABLE 3.2 DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1971-72

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70 ^a	1970-71	1971-72 ^b
<i>Too Small to Classify</i>										
1 Hartwell	*	*	Closed	*	Closed	22	21	24	Closed	
2 Cameo	*	*	20	20	20					
3 Bournemouth	22	20	26	26	Closed					
4 Dulwich	30	29	31	31	Closed					
5 Cleaves	41	40	41	37	34	Closed				
6 Ormeaux	43	40	53	43	35	38	38	32	Closed	45
7 Ordale	58	59	83	79	78	60	60	51	50	
8 Tallman	91	86	*	Closed						
9 Kilwinning	*	*	32	32	31	*	*	*	*	Closed
10 Redberry	27	33	36	46	40	44	46	46	45	41
11 Scentgrass	51	51	48	32	31	28	29	29	31	32
12 Polwarth	30	35	33	13	12	*	*	*	*	Closed
13 Cater	36	35	30	45	42	43	41	37	36	34
14 Brada	47	45	47	58	59	55	54	52	49	46
15 Lilac	61	60	60	62	51	50	34	36	41	48
16 Iffley	75	68	62	62	51	42	41	28	Closed	
17 Ranger	54	50	46	43	45					
<i>Hamlets</i>										
18 Hatherleigh	30	27	29	29	30	37	41	34	*	Closed
19 Redfield	43	28	29	27	28	42	46	37	29	18
20 Hamlin	91	89	86	86	84	87	80	87	86	83
21 Crutwell	51	48	47	23	18	16	*	*	*	Closed
22 Cavalier	67	64	64	62	62	56	65	66	65	62
23 Keatley	80	73	75	74	70	63	66	68	69	58
24 Bapaume	60	60	57	56	54	55	63	81	90	90
25 Robinhood	73	64	63	58	55	55	45	54	51	51
26 Fairholme	59	53	48	39	42	44	45	50	39	36
27 Sandwith	35	38	41	37	42	41	44	41	34	34
28 Mildred	78	69	62	59	52	38	43	40	39	40
29 Belbutte	54	49	52	37	39	37	34	*	*	Closed
30 Prince	96	89	89	90	90	87	93	99	99	93
31 Richard	115	116	116	115	112	112	105	93	90	88
32 Denholm	85	83	83	84	84	89	89	91	85	85
33 Ruddell	43	43	38	41	38	36	36	35	35	27
34 Alticane	105	102	92	79	65	56	53	54	52	58
35 Glenbush	75	73	72	70	65	51	48	48	46	40
36 Fielding	63	61	60	59	55	56	56	53	52	48
37 Mont Nebo	74	65	67	61	59	57	45	40	39	40
<i>Villages</i>										
38 Whitkow	150	159	156	147	133	70	63	61	76	72
39 Mullingar	92	84	90	73	71	76	57	49	43	36
40 Holbein	216	216	207	213	201	185	197	192	183	180

(continued)

See footnotes at end of table

TABLE 3.2 DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1971-72 (concluded)

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70 ^a	1970-71	1971-72 ^b
41 Parkside	128	125	124	124	117	110	106	109	94	88
42 Makwa	125	129	129	126	119	113	113	105	*	Closed
43 Live!ong	101	101	103	97	83	81	86	84	76	68
44 Vawn	90	90	91	91	88	90	89	86	84	77
45 Krydor	209	198	202	190	187	179	179	185	181	169
46 Medstead	94	95	99	113	109	103	112	117	111	109
47 Speers	89	87	88	82	74	72	75	89	87	89
48 Mayfair	93	93	93	91	98	88	92	89	84	70
49 Maymont	93	91	92	89	88	88	90	87	85	83
50 Mervin	96	88	90	85	85	89	78	79	78	71
51 Meota	53	50	49	52	51	53	35	36	36	35
52 Shell Lake	204	195	195	188	181	170	171	175	164	163
53 Rabbit Lake	116	112	109	118	117	123	132	147	163	168
54 Marcelin	164	157	154	148	136	132	136	137	133	127
<i>Towns</i>										
55 Debden	199	224	214	208	200	217	217	203	201	195
56 Leoville	155	151	152	144	136	129	119	131	142	134
57 Borden	220	216	206	206	193	188	192	188	189	183
58 Edam	120	116	121	121	143	139	141	144	137	138
59 Radisson	143	144	144	144	137	136	130	133	128	119
60 Canwood	284	293	281	283	278	277	275	276	272	265
61 Glaslyn	197	193	191	183	172	161	168	164	168	151
62 Hafford	329	304	300	290	279	274	297	304	286	278
63 Big River	110	110	105	99	105	105	113	110	113	115
64 Turtleford	119	127	127	129	122	132	135	142	136	139
65 Leask	300	311	293	277	268	246	245	237	237	231
<i>Greater Towns</i>										
66 Spiritwood	245	236	236	226	213	214	216	233	223	216
67 Shellbrook	303	295	285	277	280	264	258	260	282	270
68 Meadow Lake	928	896	868	825	777	751	747	748	738	733
<i>Cities</i>										
69 North Battleford	135	135	126	126	134	132	127	148	147	152
Study Area Total	7,944	7,769	7,611	7,311	7,017	6,728	6,660	6,654	6,339	6,121

*Storage only.

^aThe number of permit holders shown here may not equal the corresponding totals in Tables 2.10 and 2.11 because the two sets of figures were derived independently.

^bPermit declarations processed to Sept. 22, 1971.

Source: Canadian Wheat Board, Winnipeg.

Canadian Wheat Board Initial Payments

Under the Canadian Wheat Board marketing system, producers receive an initial payment upon delivery of their grain to country elevators. Table 3.3 shows net initial payments based on prices set at the Lakehead less freight costs from delivery points and less country elevator handling charges.¹ Initial payment levels established each year by an order-in-council of the federal cabinet are subject to change from year to year.² Initial payments in 1969-70, for example, were substantially lower than in 1968-69. In 1971-72 initial payments were the same or slightly below those set two years before.

Freight rate zones have been established following a general north-south orientation and increasing by one-cent-per-hundredweight steps as one moves west from the Lakehead. Figure 3.1 shows freight rate zones in northern Saskatchewan which include the study area. According to Figure 3.1 freight rates in the Shellbrook-Turtleford region are 23 and 24 cents per hundredweight.

Since net initial payments are, of course, slightly higher in a 23 cent freight rate zone than in a 24 cent zone, it follows that a farmer who is located on or near the boundary between those two zones will consider the price differential in choosing his delivery point. For example, a farmer delivering wheat to Richard receives \$1.26 1/4 per bushel (No. 1 C.W. Red Spring Wheat, 1971-72), 1/2 of a cent more than the \$1.25 3/4 per bushel paid at nearby Speers. To the extent that differing prices influence each farmer's choice of a delivery point, the size and shape of delivery point hinterlands are correspondingly affected.

¹In 1971-72, for instance, the handling charge was 5 3/4 cents per bushel of wheat, durum or barley and 4 1/2 cents per bushel of oats. This statutory charge is comprised of the country elevator elevation charge plus a²portion of the terminal elevator handling charge.

²For a more detailed description of how the initial payment is determined, see J.W. Channon, "How Canadian Wheat is Handled", Canadian Journal of Agricultural Economics, Workshop Proceedings, 1969, p. 88.

ERRATA

Prairie Regional Studies in Economic Geography No. 14

THE SHELLBROOK-TURTLEFORD REGION OF SASKATCHEWAN,

Economics Branch, Agriculture Canada, 1973

Please note the following corrections:

TABLE 3.3, page 121

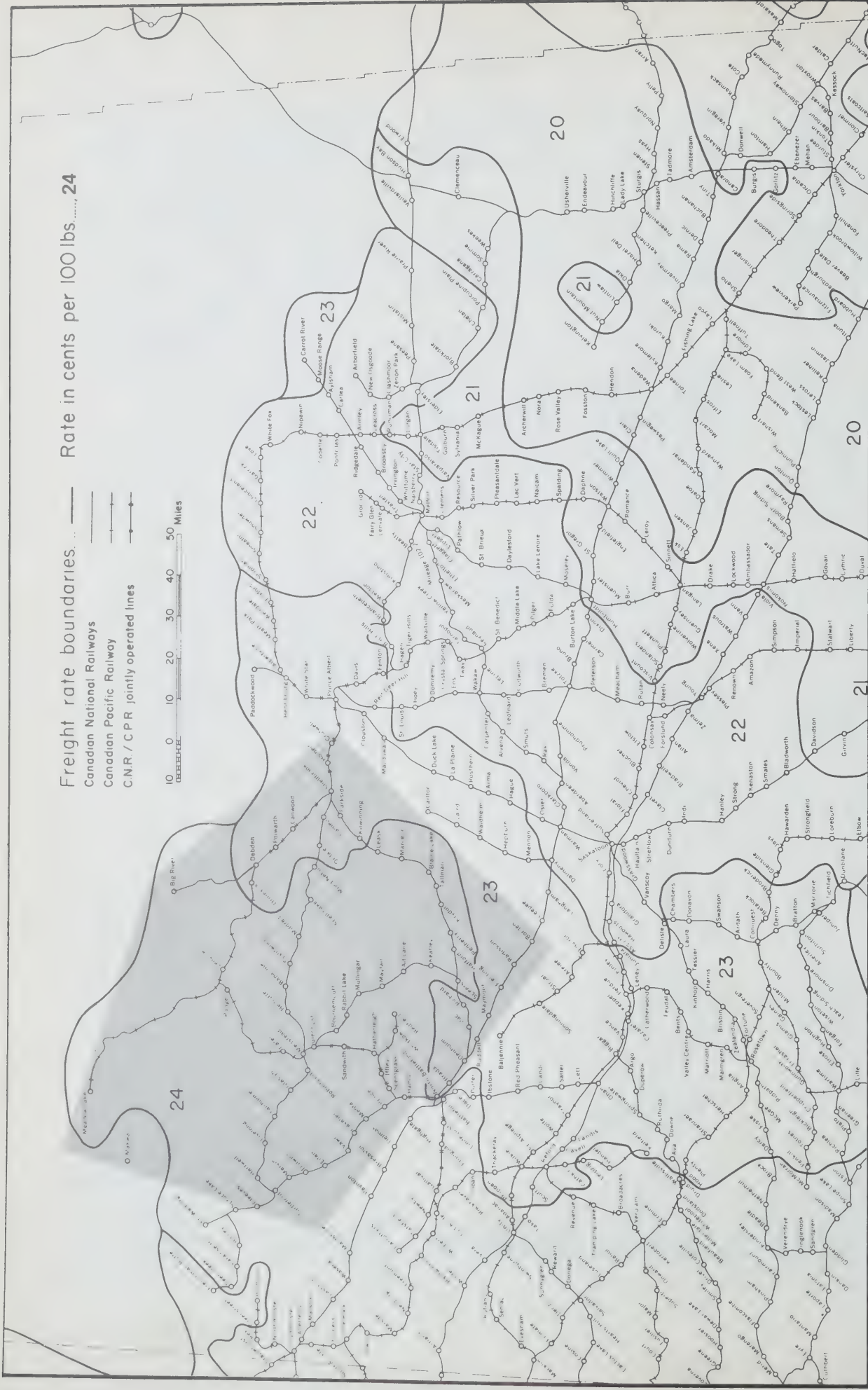
Grain Freight Rates to Lakehead	Durum		
	No. 1 C.W.A.	No. 2 C.W.A.	No. 4 C.W.A.
- cents/cwt. -	- dollars per bushel -		
<u>1971-72</u>			
23	1.26 1/4	1.22 1/4	1.09 1/4
24	1.25 3/4	1.21 3/4	1.08 3/4
25	1.25 1/4	1.21 1/4	1.08 1/4
26	1.24 1/2	1.20 1/2	1.07 1/2
27	1.24	1.20	1.07
28	1.23 1/4	1.19 1/4	1.06 1/4
29	1.22 3/4	1.18 3/4	1.05 3/4

TABLE 3.3 CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS BY FREIGHT RATES, BASIS THUNDER BAY, ONTARIO^a

Grain Freight Rates to Lakehead ^b	Wheat		Durum		Oats		Barley	
	No. 1 Northern	No. 2 Northern	No. 4 Northern	No. 1 C.W.A. C.W.A.	No. 2 C.W.A. C.W.A.	No. 4 C.W.A. C.W.A.	No. 1 C.W. 6 Row	No. 1 Feed
- cents/cwt. -	- dollars per bushel -							
1968-69								
23	1.50 1/2	1.46 1/2	1.35 1/2	1.50 1/2	1.46 1/2	1.35 1/2	.89 3/8	.80 3/8
24	1.50	1.46	1.35	1.50	1.46	1.35	.88 7/8	.79 7/8
25	1.49 1/2	1.45 1/2	1.34 1/2	1.49 1/2	1.45 1/2	1.34 1/2	.88 1/2	.79 1/2
26	1.48 3/4	1.44 3/4	1.33 3/4	1.48 3/4	1.44 3/4	1.33 3/4	.88	.79
27	1.48 1/4	1.44 1/4	1.33 1/4	1.48 1/4	1.44 1/4	1.33	.87 1/2	.78 1/2
28	1.47 1/2	1.43 1/2	1.32 1/2	1.47 1/2	1.43 1/2	1.32 1/2	.87	.78
29	1.47	1.43	1.32	1.47	1.43	1.32	.86 1/2	.77 1/2
1969-70								
23	1.30 1/4	1.26 1/4	1.13 1/4	1.30 1/4	1.26 1/4	1.13 1/4	.74 1/8	.64 1/8
24	1.29 3/4	1.25 3/4	1.12 3/4	1.29 3/4	1.25 3/4	1.12 3/4	.73 5/8	.63 5/8
25	1.29 1/4	1.25 1/4	1.12 1/4	1.29 1/4	1.25 1/4	1.12 1/4	.73 1/4	.63 1/4
26	1.28 1/2	1.24 1/2	1.11 1/2	1.28 1/2	1.24 1/2	1.11 1/2	.72 3/4	.62 3/4
27	1.28	1.24	1.11	1.28	1.24	1.11	.72 1/4	.62 1/4
28	1.27 1/4	1.23 1/4	1.10 1/4	1.27 1/4	1.23 1/4	1.10 1/4	.71 3/4	.61 3/4
29	1.26 3/4	1.22 3/4	1.09 3/4	1.26 3/4	1.22 3/4	1.09 3/4	.71 1/4	.61 1/4
1971-72								
23	No. 1 C.W. Red Spring ^c 1.26 1/4	1.26 1/4	1.13 1/4	1.30 1/4	1.26 1/4	1.13 1/4	.74 1/8	.64 1/8
24	1.25 3/4	1.25 3/4	1.12 3/4	1.29 3/4	1.25 3/4	1.12 3/4	.73 5/8	.63 5/8
25	1.25 1/4	1.25 1/4	1.12 1/4	1.29 1/4	1.25 1/4	1.12 1/4	.73 1/4	.63 1/4
26	1.24 1/2	1.24 1/2	1.11 1/2	1.28 1/2	1.24 1/2	1.11 1/2	.72 3/4	.62 3/4
27	1.24	1.24	1.11	1.28	1.24	1.11	.72 1/4	.62 1/4
28	1.23 1/4	1.23 1/4	1.10 1/4	1.27 1/4	1.23 1/4	1.10 1/4	.71 3/4	.61 3/4
29	1.22 3/4	1.22 3/4	1.09 3/4	1.26 3/4	1.22 3/4	1.09 3/4	.71 1/4	.61 1/4

^aPrior to deduction of Prairie Farm Assistant Act levy of one percent. These prices are also known as "street prices".^bFlaxseed and rapeseed 1 1/2 cents per hundredweight higher.^cEffective August 1, 1971 the grades No. 1 and No. 2 Manitoba Northern were replaced by the new grade No. 1 Canadian Western Red Spring Wheat.

Source: Canadian Wheat Board, Winnipeg.



EXPORT GRAIN FREIGHT RATES PER 100 lbs. FROM NORTHERN SASKATCHEWAN TO THUNDER BAY, ONTARIO

Source: Map "Eastbound Export Grain Rates Per 100 lbs. Based on CNR Armstrong, Fort William, Port Arthur and West Fort William, and CPR to Fort William, Port Arthur and West Fort William, 1965. William" Geographical Branch, Department of Mines and Technical Surveys, Ottawa, 1965.

Figure 3.1

Country Elevator Facilities

The number of grain elevators and their storage capacity at a delivery point measure the importance of that particular point as a collection and distribution center.¹ Table 3.4 contains this information for each delivery point in the Shellbrook-Turtleford region in both 1962-63 and 1969-70 as well as the number of grain companies represented.

The number of elevators in the study area changed from 159 in 1962-63 to 149 in 1969-70, a decrease of 10. Storage capacity was unchanged at 37 points, increased at 13 points, and decreased at 13 points. Six elevators were closed. The net result was an increase in capacity of 141,500 bushels.

An examination of the number of grain companies located at delivery points shows that two or more companies are usually present where there are two or more elevators. This is an indication of competition by elevator firms. At each of 18 delivery points, there was 1 less company in 1969 than in 1962. No place had an increase in the number of elevator firms. In 1969, there were 26 one-company points compared with 22 in 1962.

Table 3.5 provides information on ownership, age and capacity of country elevators in the study area on August 1, 1972. Altogether, there were 54 open delivery points at which representation by the different elevator companies was as follows: Saskatchewan Wheat Pool, 52 points; National Grain Co. Ltd., 17 points; Pioneer Grain Co. Ltd., 11 points; Parrish and Heimbecker Ltd., 2 points; and United Grain Growers Ltd., 1 point.

The average age of the 131 elevators recorded in Table 3.5 was 41 years in 1972. One hundred and eight elevators, 82.4 percent, were built before 1940 and 17 elevators, 13.0 percent, were built between 1940 and 1960. Only 6 elevators, 4.6 percent, were built since 1960. The oldest elevator, built in 1906, is located at North Battleford. The average storage capacity of elevators erected before 1940 including annexes is 69,000 bushels. Elevators built in 1940 or later have an average capacity of 105,000 bushels including annexes.

¹Bushel receipts should also be taken into account. See Table 3.6.

TABLE 3.4 NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT,
1962-63 AND 1969-70

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug. 1, 1969
	- number -		- bushels -		- number -	
<i>Too Small to Classify</i>						
1 Hartwell	1 ^a	Closed	25,000	-	1	-
2 Cameo	1 ^a	Closed	28,000	-	1	-
3 Bournemouth	1	1	23,000	23,000	1	1
4 Dulwich	1	Closed	55,000	-	1	-
5 Cleeves	1	Closed	56,000	-	1	-
6 Ormeaux	1	Closed	28,000	-	1	-
7 Ordale	1	1	56,000	56,000	1	1
8 Tallman	2	2	149,000	149,000	2	1
9 Kilwinning	1 ^a	Closed	25,000	-	1	-
10 Redberry	1	1 ^a	40,000	40,000	1	1
11 Scentgrass	2	2	61,000	61,000	2	2
12 Polwarth	1	1	50,000	50,000	1	1
13 Cater	1	1 ^a	30,000	30,000	1	1
14 Brada	2	2	92,000	97,000	2	1
15 Lilac	2	2	68,000	79,000	2	2
16 Iffley	2	2	66,000	66,000	2	1
17 Ranger	1	1	28,000	28,000	1	1
<i>Hamlets</i>						
18 Hatherleigh	1	1	31,000	31,000	1	1
19 Redfield	2	1	68,000	37,000	2	1
20 Hamlin	2	2	140,000	132,000	2	2
21 Crutwell	2	2 ^a	93,000	73,000	2	2
22 Cavalier	2	2	157,000	157,000	2	2
23 Keatley	3	3	171,000	171,000	2	2
24 Bapaume	2	2	70,700	70,700	2	2
25 Robinhood	2	2	88,000	88,000	2	2
26 Fairholme	2	2	57,000	57,000	1	1
27 Sandwith	1	1	56,000	56,000	1	1
28 Mildred	1	1	61,000	61,000	1	1
29 Belbutte	1	1 ^a	30,000	41,000	1	1
30 Prince	2	2	152,000	152,000	2	2
31 Richard	4	4	209,000	209,000	4	2
32 Denholm	2	2	173,000	173,000	2	2
33 Ruddell	2	2	76,700	76,700	1	1
34 Alticane	2	2	97,100	97,100	2	1
35 Glenbush	2	2	111,000	122,000	2	2
36 Fielding	2	2	79,000	93,000	2	2
37 Mont Nebo	2	2	143,000	143,000	2	1
<i>Villages</i>						
38 Whitkow	3	1	173,000	64,600	3	1
39 Mullingar	2	2	102,000	86,000	2	1
40 Holbein	3	3	399,000	378,000	3	3
41 Parkside	2	2	182,000	182,000	2	2
42 Makwa	1	1	57,500	57,500	1	1
43 Livelong	2	2	80,000	80,000	2	2
44 Vawn	2	2	197,000	197,000	2	2
45 Krydor	4	4	189,000	189,000	2	2

See footnotes at end of table

(continued)

TABLE 3.4 NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 AND 1969-70 (concluded)

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug. 1, 1969
	- number -		- bushels -		- number -	
46 Medstead	1	1	69,000	69,000	1	1
47 Speers	3	3	168,000	256,000	2	2
48 Mayfair	2	2	57,000	132,000	1	1
49 Maymont	3	3	168,000	147,000	2	1
50 Mervin	2	2	128,000	104,000	2	2
51 Meota	3	3	136,000	136,000	2	1
52 Shell Lake	2	2	121,000	121,000	2	2
53 Rabbit Lake	3	3	244,000	238,000	2	2
54 Marcelin	5	5	411,600	413,600	4	3
<i>Towns</i>						
55 Debden	3	3	163,000	255,500	2	2
56 Leoville	2	2	120,100	120,100	2	2
57 Borden	5	5	315,000	370,000	3	3
58 Edam	3	2	172,000	172,000	2	2
59 Radisson	3	3	236,000	236,000	3	3
60 Canwood	4	4	460,000	438,000	3	3
61 Glaslyn	3	3	169,000	169,000	2	2
62 Hafford	3	3	231,000	231,000	3	3
63 Big River	1	1	32,000	32,000	1	1
64 Turtleford	2	2	125,000	256,000	2	2
65 Leask	5	5	532,500	519,500	4	4
<i>Greater Towns</i>						
66 Spiritwood	4	4	374,300	373,300	4	4
67 Shellbrook	6	6	617,000	675,000	4	3
68 Meadow Lake	8	8	964,000	1,083,400	4	3
<i>Cities</i>						
69 North Battleford	3	3	303,000	280,000	2	2
Study Area Total	159	149	10,639,500	10,781,000	8 ^b	6 ^b

^aElevator used for storage only.

^bGrain companies represented are:

Federal Grain Ltd.

National Grain Co. Ltd.

Parrish & Heimbecker Ltd.

Pioneer Grain Co. Ltd.

Saskatchewan Wheat Pool

United Grain Growers Ltd.

McCabe Grain Co. Ltd. (Not present in 1969-70).

Searle Grain Co. Ltd. (Not present in 1969-70).

Source: Canadian Grain Commission, Winnipeg.

TABLE 3.5 COUNTRY ELEVATORS: OWNERSHIP, AGE AND CAPACITY BY DELIVERY POINT,
1972

Delivery Point	Elevator Company	Year of Construction		Storage Capacity
	Aug. 1, 1972	Elevator	Annex	Aug. 1, 1972
- '000 bus. -				
<i>Too Small to Classify</i>				
1 Hartwell	Closed			
2 Cameo	Closed			
3 Bournemouth	Closed			
4 Dulwich	Closed			
5 Cleeves	Closed			
6 Ormeaux	Closed			
7 Ordale	Closed			
8 Tallman	Sask. Wheat Pool A	1954	1952	70
	Sask. Wheat Pool B	1919	1927 & 1939	64
9 Kilwinning	Closed			
10 Redberry	Closed			
11 Scentgrass	Sask. Wheat Pool A	1930		31
	Sask. Wheat Pool B	1936		30
12 Polwarth	National Grain	1930	1949	50
13 Cater	Closed			
14 Brada	Sask. Wheat Pool A	1926	1968(2) ^a	53
	Sask. Wheat Pool B	1916	1940	44
15 Lilac	Sask. Wheat Pool	1924	1965	39
16 Iffley	Sask. Wheat Pool A	1930		35
	Sask. Wheat Pool B	1930		31
17 Ranger	Closed			
<i>Hamlets</i>				
18 Hatherleigh	Closed			
19 Redfield	Sask. Wheat Pool	1931		37
20 Hamlin	National Grain	1921	1940	45
	Sask. Wheat Pool	1925	1961	67
21 Crutwell	Closed			
22 Cavalier	Sask. Wheat Pool A	1921	1952	63
	Sask. Wheat Pool B	1927	1929 & 1950	70
23 Keatley	Sask. Wheat Pool A	1928	1952	66
	Sask. Wheat Pool B	1928	1932	54
	Sask. Wheat Pool C	1928		26
24 Bapaume	Sask. Wheat Pool A	1929	1965	40
	Sask. Wheat Pool B	1929		26
25 Robinhood	Sask. Wheat Pool	1926	1951	57
26 Fairholme	Sask. Wheat Pool A	1925		29
	Sask. Wheat Pool B	1925		28
27 Sandwith	Pioneer Grain	1932	1958	56
28 Mildred	Sask. Wheat Pool	1929	1953	61
29 Belbutte	Closed			
30 Prince	National Grain	1927	1928 & 1951	68
	Sask. Wheat Pool	1922	1924 & 1954	84
31 Richard	Sask. Wheat Pool A	1947	1952	82
	Sask. Wheat Pool B	1913	1929	41
	Sask. Wheat Pool C	1915	1958	52
	Sask. Wheat Pool D	1916	1940	34
32 Denholm	National Grain	1935	1910, 1940 & 1948	84
	Sask. Wheat Pool	1920	1925 & 1957	89
33 Ruddell	Sask. Wheat Pool A	1929		39
	Sask. Wheat Pool B	1927	1917	38
34 Alticane	Sask. Wheat Pool	1928		29
35 Glenbush	Pioneer Grain	1926	1958 & 1960	82
	Sask. Wheat Pool	1928	1965	40

See footnotes at end of table

(continued)

TABLE 3.5 COUNTRY ELEVATORS: OWNERSHIP, AGE AND CAPACITY BY DELIVERY POINT,
1972 (continued)

Delivery Point	Elevator Company	Year of Construction		Storage Capacity
	Aug. 1, 1972	Elevator	Annex	Aug. 1, 1972
- '000 bus. -				
36 Fielding	National Grain	1911	1916	37
	Sask. Wheat Pool	1929	1968	56
37 Mont Nebo	Sask. Wheat Pool A	1930	1950 & 1952	92
	Sask. Wheat Pool B	1928	1939	31
<i>Villages</i>				
38 Whitkow	Sask. Wheat Pool	1934	1951	65
39 Mullingar	Sask. Wheat Pool A	1928	1950	55
	Sask. Wheat Pool B	1928		31
40 Holbein	Sask. Wheat Pool A	1939	1939, 1950 & 1955	127
	Sask. Wheat Pool B	1928	1939 & 1955	86
	National Grain	1950	1940, 1949 & 1956	131
41 Parkside	National Grain	1928	1911, 1918 & 1930	87
	Sask. Wheat Pool	1959	1951	95
42 Makwa	Closed			
43 Livelong	Sask. Wheat Pool A	1925		28
	Sask. Wheat Pool B	1926	1953	52
44 Vawn	Pioneer Grain	1927	1951 & 1955	85
	Sask. Wheat Pool	1947	1940 & 1954	112
45 Krydor	Sask. Wheat Pool A	1926	1951	69
	Sask. Wheat Pool B	1928	1929	40
	Sask. Wheat Pool C	1942		48
	Sask. Wheat Pool D	1921	1928	32
46 Medstead	Sask. Wheat Pool	1970	1926 & 1959	112
47 Speers	National Grain A	1913	1916 & 1940	55
	National Grain B	1913	1968	110
	Sask. Wheat Pool	1934	1917 & 1951	91
48 Mayfair	Sask. Wheat Pool	1928	1968	103
49 Maymont	Sask. Wheat Pool A	1959	1917 & 1924	91
	Sask. Wheat Pool B	1917		24
50 Mervin	Sask. Wheat Pool A	1927	1952	58
	Sask. Wheat Pool B	1916	1920	46
51 Meota	Sask. Wheat Pool A	1927	1928	40
	Sask. Wheat Pool C	1929		62
52 Shell Lake	National Grain	1929	1940	52
	Sask. Wheat Pool	1929	1951	69
53 Rabbit Lake	Pioneer Grain #1	1926	1955 & 1958	90
	Pioneer Grain #2	1926	1960	62
	Sask. Wheat Pool	1926	1956 & 1968	88
54 Marcelin	Sask. Wheat Pool A	1929	1939 & 1951	98
	Sask. Wheat Pool B	1919	1929 & 1950	70
	Sask. Wheat Pool C	1939	1939 & 1952	98
	National Grain A	1918	1922 & 1940	77
	National Grain B	1922	1922 & 1952	70
<i>Towns</i>				
55 Debden	Sask. Wheat Pool A	1928	1953 & 1959	142
	Sask. Wheat Pool B	1920	1922 & 1963	114
56 Leoville	Sask. Wheat Pool A	1932	1949	69
	Sask. Wheat Pool B	1931	1940	51
57 Borden	National Grain	1910	1917, 1932 & 1965	112
	Sask. Wheat Pool A	1925	1951	61
	Sask. Wheat Pool B	1956	1925	93
	United Grain Growers #1	1913	1940	52
	United Grain Growers #2	1927	1950	52

TABLE 3.5 COUNTRY ELEVATORS: OWNERSHIP, AGE AND CAPACITY BY DELIVERY POINT,
1972 (concluded)

Delivery Point	Elevator Company	Year of Construction		Storage Capacity
	Aug. 1, 1972	Elevator	Annex	Aug. 1, 1972
- '000 bus. -				
58 Edam	National Grain	1911	1911 & 1921	83
	Sask. Wheat Pool	1922	1930	89
59 Radisson	Parrish & Heimbecker	1922	1940 & 1971(2) ^a	82
	Sask. Wheat Pool	1971	1922, 1931 & 1960	146
60 Canwood	National Grain	1922	1928, 1932 & 1951	90
	Sask. Wheat Pool A	1961	1940 & 1952	160
	Sask. Wheat Pool B	1937	1953 & 1962	128
	Sask. Wheat Pool C	1923	1939	42
61 Glaslyn	Pioneer Grain #1	1926	1953 & 1960	81
	Pioneer Grain #2	1926		24
	Sask. Wheat Pool	1928	1953	64
62 Hafford	National Grain	1921	1913, 1918 & 1932	81
	Pioneer Grain	1928	1932 & 1959	68
	Sask. Wheat Pool	1940	1953	82
63 Big River	Sask. Wheat Pool	1940		32
64 Turtleford	Pioneer Grain	1916	1932, 1949 & 1965	159
	Sask. Wheat Pool	1962	1928	97
65 Leask	Sask. Wheat Pool A	1961		135
	Sask. Wheat Pool B	1919	1928, 1948 & 1950	76
	Sask. Wheat Pool C	1922	1959	92
	National Grain	1929	1917, 1950 & 1951	93
	Pioneer Grain	1928	1930, 1939 & 1956	117
<i>Greater Towns</i>				
66 Spiritwood	Sask. Wheat Pool A	1929	1951 & 1968	81
	Sask. Wheat Pool B	1929	1930 & 1950	77
	National Grain	1931	1940 & 1953	80
	Pioneer Grain	1929	1930, 1940 & 1956	116
67 Shellbrook	Sask. Wheat Pool A	1958	1939(2) ^a , 1940 & 1950	134
	Sask. Wheat Pool B	1954	1954	79
	Sask. Wheat Pool C	1950	1933, 1940 & 1950	108
	Sask. Wheat Pool D	1918	1939 & 1953	93
	Pioneer Grain P	1922	1932, 1939(2) ^a & 1969	153
	Pioneer Grain W	1922	1949 & 1953	108
68 Meadow Lake	Sask. Wheat Pool A	1936	1947 & 1948	94
	Sask. Wheat Pool B	1951	1952 & 1953	179
	Sask. Wheat Pool C	1953		75
	Sask. Wheat Pool E	1931	1947 & 1948	131
	Sask. Wheat Pool F	1954	1954 & 1963	127
	Sask. Wheat Pool G	1940	1940, 1947 & 1950	127
	Pioneer Grain	1932	1948, 1949 & 1965	224
<i>Cities</i>				
69 North Battleford	National Grain	1972	1972	125
	Parrish & Heimbecker	1906	1960	80
	Sask. Wheat Pool A	1934	1954	79
	Sask. Wheat Pool B	1928		27

^aTwo annexes constructed in the same year.

Source: Canadian Grain Commission, Winnipeg.

Receipts of Grain at Country Elevators

Annual grain receipts are another measure of the importance of a grain collection and distribution center. Receipts for the crop years from 1962-63 to 1970-71 are presented in Table 3.6 for each delivery point in the study area.

For all points that were open in 1970-71, the ten-year average receipts range from 73,000 bushels at Sandwith to 1,836,000 bushels at Meadow Lake. The observation that grain receipts are commensurate with the size of the community can be illustrated by listing the ten-year average for each community size group: "too small to classify", 102,000 bushels; hamlets, 205,000 bushels; villages, 301,000 bushels; towns, 473,000 bushels; and greater towns, 1,081,000 bushels.

As grain receipts depend upon such things as crop yields and grain marketings, there is considerable variation from year to year. Total study area receipts during the decade ranged from a low of 14.5 million bushels to a high of 25.2 million bushels.

TABLE 3.6 RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1970-71 AND TEN-YEAR AVERAGE

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	Average 1960-61 to 1969-70
- '000 bushels -										
<i>Too Small to Classify</i>										
1 Hartwell	*	*								
2 Cameo	*	*			Closed					
3 Bournemouth	57	61	39	40	61	53	52	63	Closed	51 ^b
4 Dulwich	108	86	55	56	Closed					78 ^b
5 Cleaves	120	106	49	34	47	Closed				81 ^b
6 Ormeaux	46	120	50	61	84	Closed				65 ^b
7 Ordale	71	121	52	60	79	64	52	53	Closed	69
8 Talman	210	260	173	241	317	200	182	124	156	216
9 Kilwinning	*	*	*	Closed						
10 Redberry	25	63	32	53	79	30	*	*	*	44 ^b
11 Scentgrass	139	198	118	141	155	125	135	131	177	134
12 Polwarth	72	112	70	84	104	81	85	93	99	84
13 Cater	51	68	27	20	25	12	*	*	*	36 ^b
14 Brada	163	260	206	269	299	210	166	165	232	199
15 Lilac	180	266	162	210	321	205	184	198	255	201
16 Iffley	115	144	62	95	142	104	71	66	114	95
17 Ranger	80	123	58	62	97	92	69	14	Closed	76
<i>Hamlets</i>										
18 Hatherleigh	47	63	26	39	74	78	60	44	*	49
19 Redfield	119	111	66	68	131	119	105	104	98	101
20 Hamlin	303	444	291	384	509	360	342	380	630	350
21 Crutwell	85	117	71	59	55	17	*	*	*	69 ^b
22 Cavalier	328	323	244	303	304	248	231	277	398	280
23 Keatley	259	289	213	266	304	212	202	236	345	241
24 Bapaume	136	184	83	116	197	166	157	259	276	150
25 Robinhood	156	153	96	164	191	184	149	148	194	146
26 Fairholme	131	113	64	77	113	144	86	110	147	101
27 Sandwith	59	87	30	91	116	98	89	90	130	73
28 Mildred	121	142	101	104	130	92	85	113	111	104
29 Belbutte	118	149	83	92	123	100	71	*	*	90 ^b
30 Prince	357	455	263	314	441	315	299	356	547	334
31 Richard	352	480	326	410	598	414	338	553	553	389
32 Denholm	299	487	300	378	552	369	327	390	600	361
33 Ruddehl	184	184	97	150	214	136	112	120	185	127
34 Alticane	163	213	78	152	145	112	95	106	165	132
35 Glenbush	211	222	141	255	237	200	149	189	277	188
36 Fieiding	144	247	150	251	345	232	176	219	319	203
37 Mont Nebo	137	175	77	129	196	159	110	127	143	132
<i>Villages</i>										
38 Whitkow	262	364	177	289	453	173	133	128	191	236
39 Mullingar	163	213	125	175	197	177	109	116	135	147
40 Holbein	528	726	559	807	947	759	677	955	902	686

(continued)

See footnotes at end of table

TABLE 3.6 RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1970-71 AND TEN-YEAR AVERAGE (concluded)

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	Ten-Year Average 1960-61 to 1969-70
	- '000 bushels -									
41 Parkside	278	349	139	350	359	267	257	289	268	265
42 Makwa	125	147	95	100	130	133	95	8	*	101
43 Livelong	217	182	89	141	177	170	136	153	229	150
44 Vawn	387	374	210	265	345	313	298	316	401	307
45 Krydor	303	456	248	409	500	360	333	317	409	354
46 Medstead	218	250	157	282	274	288	238	260	384	219
47 Speers	332	401	269	367	461	303	303	375	643	342
48 Mayfair	202	235	143	267	268	223	158	242	271	204
49 Maymont	192	401	187	358	477	323	285	270	470	295
50 Mervin	414	366	252	317	388	301	242	316	424	313
51 Meota	252	268	202	231	248	187	126	140	232	203
52 Shell Lake	264	330	168	222	328	286	268	278	271	251
53 Rabbit Lake	279	378	264	387	445	380	391	518	767	350
54 Marcelin	517	573	386	531	669	470	407	487	638	488
<i>Towns</i>										
55 Debden	265	543	325	404	582	586	517	508	501	421
56 Leoville	306	361	213	347	426	381	243	322	415	311
57 Borden	415	714	524	670	832	569	505	579	845	573
58 Edam	559	473	387	387	632	471	407	481	664	443
59 Radisson	293	535	377	486	664	469	416	443	584	431
60 Canwood	628	953	563	718	1,055	858	750	936	939	757
61 Glaslyn	437	478	261	425	463	394	317	394	534	373
62 Hafford	428	702	326	549	789	617	568	623	772	541
63 Big River	72	124	37	82	115	105	74	67	98	78
64 Turtleford	467	443	374	384	582	496	411	531	754	442
65 Leask	942	969	457	843	1,166	883	731	935	1,013	828
<i>Greater Towns</i>										
66 Spiritwood	524	672	424	550	727	636	507	763	732	551
67 Shellbrook	818	1,042	722	978	1,118	851	735	938	916	856
68 Meadow Lake	2,229	2,205	1,571	1,740	1,867	1,856	1,640	2,061	1,488	1,836
<i>Cities</i>										
69 North Battleford	417	622	399	489	694	469	481	574	992	480
Study Area Total	18,788	23,475	14,476	19,778	25,194	19,695	16,937	19,881	24,033	18,881

*Storage only.

^aRapeseed is not included in 1962-63 data.

^bAverage is for those years a delivery point had receipts.

Source: Canadian Grain Commission, Winnipeg.

Throughput Ratios

The throughput ratio of a delivery point is the number of bushels it receives annually divided by its storage capacity in bushels (Table 3.7).¹ This ratio is one way to measure the efficiency of the elevator or elevators at a delivery point. The ten-year average is the average of the annual receipts for the period divided by the rated storage capacity for 1969-70. On this basis, 41 points had ratios of less than 2.0 and 19 had ratios from 2.0 to 2.9. Only Whitkow, Medstead and Mervin had ratios of 3.0 or over. The lowest ten-year average, 0.9, was recorded at both Crutwell and Mont Nebo. Contrary to what might be expected, larger centers did not usually have higher throughput ratios than smaller centers.

It has been suggested that an elevator paying for itself should maintain a throughput ratio that is between 3.0 and 4.0.² Speculation suggests the following example. Suppose a one-elevator delivery point has a storage capacity of 50,000 bushels for which a throughput ratio of 2.0 would require an annual handling of 100,000 bushels. To handle that much grain, the elevator agent would need to load only 50 cars each with a capacity of 2,000 bushels. That would be one car for every week for 50 weeks of the year. A throughput ratio of 5.0 would entail the annual handling of 250,000 bushels and require the agent to load 2.5 cars every week of the year. This does not seem unreasonable.

¹A further comparison of throughput ratios is presented in Part IV, Table 4.5.

²D. Zasada, "The Probable Effects of Application for Railway Branch Line Abandonment on the Grain Elevator Industry," Canadian Farm Economics, April, 1968, p.21.

TABLE 3.7 THROUGHPUT RATIOS BY DELIVERY POINT 1962-63, 1969-70 AND
TEN-YEAR AVERAGE 1960-61 TO 1969-70

Delivery Point	1962-63	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Too Small to Classify</i>			
1 Hartwell	*	Closed	-
2 Cameo	*	Closed	-
3 Bournemouth	2.5	2.7	2.2
4 Dulwich	2.0	Closed	-
5 Cleeves	2.1	Closed	-
6 Ormeaux	1.6	Closed	-
7 Ordale	1.3	0.9	1.2
8 Tallman	1.4	0.8	1.4
9 Kilwinning	*	Closed	-
10 Redberry	0.6	*	1.1
11 Scentgrass	2.3	2.1	2.2
12 Polwarth	1.4	1.9	1.7
13 Cater	1.7	*	1.2
14 Brada	1.8	1.7	2.0
15 Lilac	2.6	2.5	2.5
16 Iffley	1.7	1.0	1.4
17 Ranger	2.8	0.5	2.7
<i>Hamlets</i>			
18 Hatherleigh	1.5	1.4	1.6
19 Redfield	1.7	2.8	2.7
20 Hamlin	2.2	2.9	2.7
21 Crutwell	0.9	*	0.9
22 Cavalier	2.1	1.8	1.8
23 Keatley	1.5	1.4	1.4
24 Bapaume	1.9	3.7	2.1
25 Robinhood	1.8	1.7	1.7
26 Fairholme	2.3	1.9	1.8
27 Sandwith	1.0	1.6	1.3
28 Mildred	2.0	1.8	1.7
29 Belbutte	3.9	*	2.2
30 Prince	2.3	2.3	2.2
31 Richard	1.7	1.8	1.9
32 Denholm	1.7	2.2	2.1
33 Ruddell	1.2	1.6	1.6
34 Alticane	1.7	1.1	1.4
35 Glenbush	1.9	1.5	1.5
36 Fielding	1.8	2.3	2.2
37 Mont Nebo	1.0	0.9	0.9

See footnotes at end of table

(continued)

TABLE 3.7 THROUGHPUT RATIOS BY DELIVERY POINT 1962-63, 1969-70 AND
TEN-YEAR AVERAGE 1960-61 TO 1969-70 (concluded)

Delivery Point	1962-63	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Villages</i>			
38 Whitkow	1.5	2.0	3.6
39 Mullingar	1.6	1.3	1.7
40 Holbein	1.3	2.5	1.8
41 Parkside	1.5	1.6	1.5
42 Makwa	2.2	0.1	1.7
43 Livelong	2.7	1.9	1.9
44 Vawn	2.0	1.6	1.6
45 Krydor	1.6	1.7	1.9
46 Medstead	3.2	3.8	3.2
47 Speers	2.0	1.4	1.3
48 Mayfair	3.5	1.8	1.5
49 Maymont	1.1	1.8	2.0
50 Mervin	3.2	3.0	3.0
51 Meota	1.8	1.0	1.5
52 Shell Lake	2.2	2.3	2.1
53 Rabbit Lake	1.1	2.2	1.5
54 Marcelin	1.3	1.2	1.2
<i>Towns</i>			
55 Debden	1.6	2.0	1.6
56 Leoville	2.5	2.7	2.6
57 Borden	1.3	1.6	1.5
58 Edam	3.2	2.8	2.6
59 Radisson	1.2	1.9	1.8
60 Canwood	1.4	2.1	1.7
61 Glaslyn	2.6	2.3	2.2
62 Hafford	1.9	2.7	2.3
63 Big River	2.2	2.1	2.4
64 Turtleford	3.7	2.1	1.7
65 Leask	1.8	1.8	1.6
<i>Greater Towns</i>			
66 Spiritwood	1.4	2.0	1.5
67 Shellbrook	1.3	1.4	1.3
68 Meadow Lake	2.3	1.9	1.7
<i>Cities</i>			
69 North Battleford	1.4	2.0	1.7
Study Area Total	1.8	1.8	1.7

*Storage only.

Source: Canadian Grain Commission, Winnipeg.

Acres for Delivery Quota Purposes

Prior to the beginning of the 1970-71 crop year, the basis for determining the general grain delivery quota for each producer was his acreage in cereal crops, cultivated forage crops and summer fallow. This land was referred to as "specified acreage". Other miscellaneous crops, native pasture and unimproved farmland were not part of the specified acreage and neither were oilseeds which had their own quotas based on declared seeded acreage.

The number of specified acres tributary to a delivery point indicates the amount of available grainland as well as the demand for grain handling and storage facilities. Table 3.8 shows the specified acreage for each delivery point from 1962-63 to 1969-70. In 1969-70, 2,642,521 acres of the 4,040,616 acres of farmland in the study region were specified acreage. A one-bushel quota would, therefore, result in the delivery of about 2,642,521 bushels of grain.

From 1962-63 to 1969-70, the total specified acreage in the study area increased by 8.0 percent. Seventeen of the delivery points had decreases and 42 had increases. The decreases do not include the closure of elevators at several points. Most communities "too small to classify" lost specified acreage while hamlets, villages, towns and greater towns usually gained such acreages. The largest decrease, 52.2 percent, occurred at Whitkow and the largest increase, 89.7 percent, occurred at Bapaume.

Following the Operation LIFT program of 1970-71, further changes in the delivery quota system were introduced for the 1971-72 crop year. Under the new system, each producer was required to calculate the total number of his assignable acres by totaling his 1971 acreages in (1) the six quota grains¹, (2) summer fallow, (3) other miscellaneous annual crops and (4) perennial forage up to one third of the total of items (1) to (3). Subject to certain regulations, total assignable acres could be distributed for quota purposes to any one of the quota grains whether or not the producer had land seeded to that particular crop in 1971. In consequence, there are about 16 different delivery quotas, each with a separately assigned acreage that may be either terminated or increased independently by the Wheat Board.

Table 3.9 details the seeded and assigned quota acreages by delivery point in the Shellbrook-Turtleford region for the 1971-72 crop year. In the study area, quota acres assigned to durum and other wheat amounted to more than three times the acreage seeded to all wheat. The ratios of seeded to quota acres for the other grains were: oats, 1:0.5; barley, 1:1.5; rye, 1:1.2; flax, 1:3.0 and rape, 1:1.3. Fielding is an example of a delivery point where producers assigned a portion of their quota acres to a crop they did not plant in 1971. Quota acres there were assigned to Hercules durum although none was planted.

¹Wheat including durum, barley, oats, rye, flaxseed and rapeseed.

TABLE 3.8 CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Percent of Change 1962-63 to 1969-70
- acres -									
<i>Too Small to Classify</i>									
1 Hartwell	*	*	Closed	*	Closed	6,063	6,773	7,528	+42.9
2 Cameo		5,348	5,135	4,561	5,279				
3 Bournemouth	*	10,770	9,865	9,929	Closed				
4 Dulwich		13,649	10,396	7,358	6,068				
5 Clevees		14,268	14,418	15,116	13,070				
6 Ormeaux		16,318	15,838	11,034	10,158		10,872	9,965	-36.1
7 Ordale		29,445	29,020	28,000	29,157		26,365	19,643	-33.6
8 Tallman	*			Closed					
9 Kilwinning		7,239	8,014	7,916	8,184		*	*	
10 Redberry		19,354	18,341	17,382	16,510		17,938	18,570	+5.7
11 Scentgrass		10,082	10,149	9,469	9,235		9,827	9,400	-2.3
12 Polwarth		7,134	5,960	3,062	2,669		*	*	
13 Cater		23,607	24,550	22,878	22,288		24,822	22,680	+1.6
14 Brada		26,585	27,671	26,344	27,663		25,936	24,456	-8.9
15 Lilac		17,120	15,817	16,423	14,842		10,884	10,067	-43.1
16 Iffley		12,048	11,069	11,018	11,425		11,796	10,474	-9.6
17 Ranger									
<i>Hamlets</i>									
18 Hatherleigh	7,266	6,891	7,602	7,146	7,026	9,672	11,087	9,333	+28.4
19 Redfield	16,895	11,002	11,253	9,413	9,609	15,998	19,473	16,800	-0.6
20 Hamlin	36,958	38,369	39,443	40,803	40,341	43,606	44,365	43,517	+17.7
21 Crutwell	12,836	13,913	13,553	6,200	5,431	5,099	*	*	
22 Cavalier	32,528	32,317	32,722	32,706	32,303	32,011	35,864	34,176	+5.1
23 Keatley	27,584	27,233	28,255	29,448	28,031	27,431	29,111	28,434	+3.1
24 Bapaume	17,666	19,381	18,179	20,582	18,266	20,773	22,528	33,517	+89.7
25 Robinhood	16,065	15,282	16,284	15,019	16,588	17,697	21,466	20,890	+30.0
26 Fairholme	12,770	11,703	11,227	10,277	12,332	14,805	16,547	19,005	+75.8
27 Sandwith	8,052	8,931	10,016	9,505	11,031	11,150	13,597	14,156	+18.4
28 Mildred	17,095	16,461	17,247	16,993	16,049	12,543	13,883	13,946	
29 Belbutte	16,401	15,488	16,820	12,833	12,693	13,209	12,517	*	
30 Prince	37,413	37,130	36,946	36,625	38,750	40,243	44,790	46,348	+23.9
31 Richard	45,973	49,241	49,085	48,974	50,839	52,106	51,246	45,850	-0.3
32 Denholm	41,353	42,759	42,448	46,005	48,145	50,287	50,820	49,291	+19.2
33 Ruddell	18,667	19,691	19,831	20,324	42,545	19,935	18,906	18,906	+1.3
34 Alticane	19,971	19,936	19,654	17,128	15,330	14,308	14,294	15,245	-23.7
35 Glenbush	21,008	20,845	20,848	22,143	22,590	21,206	21,888	23,119	+10.0
36 Fielding	29,837	29,171	29,503	29,723	29,743	30,356	28,556	28,412	-4.8
37 Mont Nebo	21,906	20,762	20,956	21,438	21,636	23,882	19,233	18,219	-16.8
<i>Villages</i>									
38 Whitkow	41,744	45,611	44,180	43,217	41,188	23,716	20,939	19,935	-52.2
39 Mullingar	21,177	20,718	21,401	18,994	19,485	21,347	19,067	15,470	-26.9
40 Holbein	63,304	68,507	71,758	74,425	78,225	81,798	87,544	85,941	+35.8

See footnotes at end of table

(continued)

TABLE 3.8 CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70 (concluded)

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Percent of Change 1962-63 to 1969-70
					- acres -				
41 Parkside	42,981	42,566	44,330	43,331	42,228	40,565	41,329	40,115	-6.7
42 Makwa	30,334	33,415	33,705	32,312	31,999	31,728	38,455	36,299	+19.7
43 Livelong	27,502	29,338	30,192	27,952	26,929	27,179	30,983	27,995	+1.1
44 Vawn	39,099	39,407	39,676	37,861	37,689	39,683	44,038	43,961	+12.4
45 Krydor	49,314	49,549	50,280	48,237	48,078	47,597	51,130	52,392	+6.2
46 Medstead	23,198	24,163	26,687	30,821	30,484	31,554	39,560	42,514	+83.3
47 Speers	41,620	43,167	43,132	41,694	40,196	40,296	41,803	46,368	+11.4
48 Mayfair	23,042	23,649	24,370	26,561	26,950	26,726	28,766	28,586	+24.1
49 Maymont	40,145	40,384	41,328	41,905	42,545	42,961	43,115	44,028	+9.7
50 Mervin	37,196	37,133	40,480	38,934	38,648	38,400	41,362	39,978	+7.5
51 Meota	22,606	22,561	22,098	21,412	22,044	22,817	17,984	18,074	-20.0
52 Shell Lake	42,497	41,514	42,711	43,664	44,282	43,666	46,664	50,164	+18.0
53 Rabbit Lake	30,775	30,345	29,281	30,817	31,347	36,513	44,618	51,150	+66.2
54 Marcelin	57,503	59,367	57,658	57,561	58,700	57,742	59,184	58,190	+1.2
<i>Towns</i>									
55 Debben	48,551	60,594	61,894	63,558	66,446	82,748	88,343	86,660	+78.5
56 Leoville	43,975	45,321	47,241	47,348	46,726	48,200	45,974	47,389	+7.8
57 Borden	84,648	85,179	83,746	84,383	84,936	84,457	85,311	87,139	+2.9
58 Edam	56,373	56,957	59,722	58,398	67,375	66,072	70,596	74,518	+32.2
59 Radisson	62,981	64,684	65,490	65,947	64,687	66,550	65,163	65,873	+4.6
60 Canwood	90,163	93,932	95,274	93,684	95,392	97,091	106,144	104,460	+15.9
61 Glaslyn	47,090	49,235	50,664	50,756	49,236	48,615	53,215	54,963	+16.7
62 Hafford	82,213	79,572	80,236	78,764	78,534	81,413	88,000	93,525	+13.8
63 Big River	18,080	19,090	19,501	19,829	21,768	22,770	25,691	27,383	+51.5
64 Turtleford	45,653	49,043	51,188	51,433	51,512	61,267	67,019	68,621	+50.3
65 Leask	105,028	111,543	109,917	111,297	112,207	114,073	114,667	117,744	+12.1
<i>Greater Towns</i>									
66 Spiritwood	71,253	72,069	74,565	73,872	74,694	79,611	88,169	91,955	+29.1
67 Shellbrook	107,164	107,325	106,584	99,831	103,003	100,618	108,874	105,634	-1.4
68 Meadow Lake	228,050	222,051	221,279	202,389	197,926	202,846	233,300	232,166	+1.8
<i>Cities</i>									
69 North Battleford	56,747	54,597	53,317	55,192	60,554	61,838	64,160	71,584	+26.1
Study Area Total	2,446,764	2,431,984	2,512,000	2,460,153	2,469,509	2,506,630	2,637,452	2,642,521	+8.0

*Storage only.

^aDurum excluded from specified acreage in 1962-63.

Source: Canadian Wheat Board, Winnipeg.

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72

	8 Tallman			11 Scentgrass			Too Small to Classify			14 Brada			15 Lilac		
	Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres	
Hercules Durum % of Total	-	-	-	-	-	-	-	-	-	140	70	130	130	70	130
Other Durum % of Total	-	50	-	25	162	-	-	-	-	0.7	0.4	0.5	0.5	0.4	0.5
All Other Wheat % of Total	3,858	11,783	0.3	0.1	0.9	-	-	-	-	20	305	23	245	305	245
Oats % of Total	22.3	69.4	11,783	2,449	9,146	3,883	1,365	3,883	12,145	4,106	12,145	4,318	15,617	12,145	15,617
Selected Oats % of Total	649	332	69.4	14.0	52.6	36.6	12.8	36.6	55.1	18.6	55.1	17.4	62.9	55.1	62.9
Selected Oats % of Total	3.8	1.9	332	900	158	637	494	637	295	648	295	968	328	295	328
Barley % of Total	-	-	-	5.2	0.9	6.0	4.7	6.0	76	2.9	1.3	3.9	1.3	1.3	1.3
Barley % of Total	2,299	1,877	0.6	-	0.6	-	-	-	0.3	-	0.3	-	-	-	-
Selected Barley % of Total	13.3	11.0	1,877	2,460	3,016	3,328	2,013	3,328	1,986	3,098	1,986	2,830	1,858	1,986	1,858
Rye % of Total	-	350	17.4	14.1	17.4	31.3	18.9	31.3	9.0	14.0	9.0	11.4	7.5	9.0	7.5
Other Rye % of Total	144	50	350	-	50	95	-	95	1,550	-	1,550	-	1,350	1,550	1,350
Flaxseed % of Total	0.8	0.3	2.1	130	0.3	0.9	20	0.9	7.0	410	930	-	5.4	7.0	5.4
Flaxseed for Crushing % of Total	-	-	-	0.7	1.7	-	0.2	-	4.2	1.9	4.2	-	-	4.2	-
Low Erucic Acid Rape % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Rapeseed % of Total	770	770	22	22	22	-	-	-	-	320	220	310	175	220	175
Misc. Crops % of Total	4.5	4.5	0.1	0.1	0.1	-	-	-	-	1.4	1.0	1.2	0.7	1.0	0.7
Summer Fallow % of Total	1,861	1,676	3,513	3,513	4,237	2,681	1,865	2,681	4,379	4,770	4,379	4,391	5,123	4,379	5,123
Subtotal % of Total	10.8	9.9	20.1	20.1	24.4	25.2	17.5	25.2	19.9	21.6	19.9	17.7	20.6	19.9	20.6
Perennial Forage % of Total	-	-	14	14	-	-	-	-	-	19	-	179	-	-	-
TOTAL IMPROVED ACRES % of Total	6,528	-	0.1	0.1	-	-	-	-	-	0.1	-	0.7	-	-	-
	37.8	-	6,744	6,744	-	-	4,128	-	-	7,922	-	10,796	-	-	-
	16,199	16,988	38.6	38.6	-	-	38.8	-	-	35.8	-	43.5	-	-	-
	93.8	100.0	16,257	16,257	17,371	10,624	9,885	10,624	22,035	21,453	22,035	23,945	24,836	22,035	24,836
	1,065	-	93.0	93.0	100.0	100.0	92.9	100.0	100.0	97.1	100.0	96.4	100.0	100.0	100.0
	6.2	-	1,222	1,222	-	-	759	-	-	659	-	891	-	-	-
	17,264	16,988	7.0	7.0	-	-	7.1	-	-	2.9	-	3.6	-	-	-
	100.0	100.0	17,479	17,479	17,371	10,624	10,644	10,624	22,035	22,112	22,035	24,836	24,836	22,035	24,836
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Too Small to Classify (continued)				Hamlets							
	16 Iflfley		19 Redfield		20 Hamlin		22 Cavalier		23 Keatley			
	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum % of Total	-	-	-	-	-	-	-	-	-	-	-	-
Other Durum % of Total	-	-	-	-	-	-	-	-	-	-	-	-
All Other Wheat % of Total	-	-	-	-	-	-	-	-	-	-	-	-
Oats % of Total	2,823 17.6	8,956 59.3	2,226 23.9	4,907 52.6	7,683 16.0	28,286 59.2	3,972 11.6	18,442 54.5	5,662 20.9	16,131 60.2	5,662 20.9	16,131 60.2
Selected Oats % of Total	1,465 9.1	782 5.2	331 3.5	335 3.6	1,673 3.5	301 0.6	2,089 6.0	1,265 3.7	1,410 5.2	323 1.2	1,410 5.2	323 1.2
Barley % of Total	-	-	-	60	-	100	-	100	-	50	-	50
Selected Barley % of Total	2,117 13.2	3,157 20.9	1,664 17.8	1,663 17.8	5,685 11.8	2,356 4.9	5,106 14.9	5,468 16.1	4,427 16.4	4,166 15.5	4,427 16.4	4,166 15.5
Rye % of Total	85 0.5	66 0.4	145 1.6	230 2.5	105 0.2	195 0.4	482 1.4	325 1.0	70 0.3	4.1	70 0.3	4.1
Other Rye % of Total	-	-	-	-	-	-	-	-	-	-	-	-
Flaxseed % of Total	40 0.2	40 0.3	30 0.3	94 1.0	205 0.4	465 1.0	-	165 0.5	15 0.1	40 0.2	15 0.1	40 0.2
Flaxseed for Crushing % of Total	-	-	-	-	-	-	-	-	-	-	-	-
Low Erucic Acid Rape % of Total	-	20 0.1	-	-	1,060 2.2	684 1.4	5 0.1	5 0.1	223 0.8	269 1.0	223 0.8	269 1.0
Other Rapeseed % of Total	1,443 9.0	1,970 13.1	1,002 10.8	1,186 12.7	9,741 20.3	12,738 26.7	5,786 16.8	6,560 19.4	3,551 13.1	4,717 17.6	3,551 13.1	4,717 17.6
Misc. Crops % of Total	45 0.3	-	-	-	-	-	-	-	28 0.1	-	28 0.1	-
Summer Fallow % of Total	5,739 35.7	-	3,704 39.7	-	19,570 40.7	-	13,627 39.7	-	10,444 38.7	-	10,444 38.7	-
Subtotal % of Total	13,757 85.6	15,091 100.0	9,102 97.6	9,325 100.0	45,722 95.1	47,775 100.0	31,067 90.5	33,880 100.0	25,830 95.6	26,796 100.0	25,830 95.6	26,796 100.0
Perennial Forage % of Total	2,308 14.4	-	223 2.4	-	2,342 4.9	-	3,244 9.5	-	1,177 4.4	-	1,177 4.4	-
TOTAL IMPROVED ACRES % of Total	16,065 100.0	15,091 100.0	9,325 100.0	9,325 100.0	48,064 100.0	47,775 100.0	34,311 100.0	33,880 100.0	27,007 100.0	26,796 100.0	27,007 100.0	26,796 100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Hamlets (Continued)												
	24 Bapaume			25 Robinhood			26 Fairholme			27 Sandwith			28 Mildred
	Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Durum % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-
All Other Wheat % of Total	5,937 14.4	20,626 51.1	-	946 4.5	2,799 14.3	-	1,948 12.2	6,730 42.8	-	1,406 9.3	6,368 42.5	889 5.6	4,248 28.5
Oats % of Total	5,235 12.7	3,202 7.9	-	2,138 10.1	1,860 9.5	-	2,224 14.0	1,755 11.1	-	1,901 12.7	1,561 10.4	1,556 9.8	254 1.7
Selected Oats % of Total	-	146 0.4	-	-	170 0.9	-	-	100 0.6	-	-	250 1.7	-	-
Barley % of Total	9,785 23.8	14,248 35.3	-	5,547 26.3	12,099 61.7	-	2,331 14.6	3,454 22.0	-	3,047 20.3	4,315 28.8	4,792 30.1	8,870 59.5
Selected Barley % of Total	-	250 0.6	-	-	700 3.6	-	-	250 1.6	-	-	200 1.3	-	250 1.7
Rye % of Total	246 0.6	195 0.5	-	15 0.1	-	-	106 0.7	-	-	-	-	-	-
Other Rye % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Flaxseed % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Flaxseed for Crushing % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Low Erucic Acid Rape % of Total	10 0.1	10 0.1	-	-	-	-	-	-	-	-	-	-	-
Other Rapeseed % of Total	1,603 3.9	1,656 4.1	-	1,603 7.6	1,966 10.0	-	2,550 16.0	3,446 21.9	-	1,487 9.9	2,291 15.3	849 5.3	1,277 8.6
Misc. Crops % of Total	129 0.3	-	-	15 0.1	-	-	-	-	-	-	-	407 2.6	-
Summer Fallow % of Total	12,674 30.8	-	-	6,170 29.3	-	-	5,224 32.8	-	-	6,020 40.1	-	4,268 26.8	-
Subtotal % of Total	35,619 86.6	40,339 100.0	-	16,434 78.0	19,594 100.0	-	14,383 90.3	15,735 100.0	-	13,861 92.3	14,985 100.0	12,761 80.2	14,899 100.0
Perennial Forage % of Total	5,518 13.4	-	-	4,653 22.0	-	-	1,554 9.7	-	-	1,164 7.7	-	3,156 19.8	-
TOTAL IMPROVED ACRES % of Total	41,137 100.0	40,339 100.0	-	21,087 100.0	19,594 100.0	-	15,937 100.0	15,735 100.0	-	15,025 100.0	14,985 100.0	15,917 100.0	14,899 100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Hamlets (concluded)			Villages		
	35 Glenbush		36 Fielding	37 Mont Nebo		38 Whitkow
	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage
						39 Mullingar
						Seeded & Summer Fallow Acreage
						Quota Acres
Hercules Durum	-	-	-	-	-	-
% of Total	-	-	-	-	-	-
Other Durum	-	-	180	-	-	-
% of Total	-	-	0.6	-	-	-
All Other Wheat	768	4,129	5,879	4,148	12,768	1,602
% of Total	3.5	19.1	20.5	19.9	63.5	11.8
Oats	3,226	1,943	2,090	1,165	125	2,084
% of Total	14.8	9.0	7.3	5.6	0.6	8.9
Selected Oats	-	65	700	-	-	15.4
% of Total	-	0.3	2.5	-	-	150
Barley	6,491	13,490	4,344	1,845	3,075	2,732
% of Total	29.9	62.4	15.2	8.8	15.3	20.2
Selected Barley	-	250	-	-	-	-
% of Total	-	1.1	-	-	-	-
Rye	60	120	1,115	450	401	316
% of Total	0.3	0.6	3.9	2.2	2.0	1.1
Other Rye	-	-	-	-	-	-
% of Total	-	-	-	-	-	-
Flaxseed	-	-	-	-	-	-
% of Total	-	-	-	-	-	-
Flaxseed for Crushing	-	-	-	-	-	-
% of Total	-	-	-	-	-	-
Low Erucic Acid Rape	-	-	-	-	-	-
% of Total	-	-	-	-	-	-
Other Rapeseed	995	1,614	838	2,323	3,749	645
% of Total	4.6	7.5	2.9	11.1	18.6	2.2
Misc. Crops	-	-	339	-	-	2,991
% of Total	-	-	1.2	-	-	10.3
Summer Fallow	8,152	-	9,803	7,003	-	35
% of Total	37.5	-	34.2	33.5	-	0.1
Subtotal	19,692	21,611	25,947	16,934	20,118	10,887
% of Total	90.6	100.0	90.6	81.1	100.0	37.6
Perennial Forage	2,050	-	2,695	3,946	-	26,520
% of Total	9.4	-	9.4	18.9	-	91.6
TOTAL IMPROVED ACRES	21,742	21,611	28,642	20,880	20,118	2,429
% of Total	100.0	100.0	100.0	100.0	100.0	8.4
						28,949
						100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	40 Holbein				41 Parkside				43 Liveland				44 Vawn				45 Krydor			
	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Durum % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
All Other Wheat % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
Oats % of Total	13,407	44,097	3,403	12,265	8,197	6,067	1,197	6,067	8,391	30,846	8,391	30,846	8,391	30,846	16,588	41,830	16,588	41,830	79.3	633
Selected Oats % of Total	4,483	1,820	3,558	1,950	4,717	5,095	4,717	5,095	2,641	621	2,641	621	2,641	621	3,128	633	3,128	633	1.2	35
Barley % of Total	19,204	23,332	8,644	10,912	6,722	11,186	6,722	11,186	5,288	5,989	5,288	5,989	5,288	5,989	5,633	4,844	5,633	4,844	9.2	650
Selected Barley % of Total	19.7	24.2	20.6	28.6	22.8	40.7	22.8	40.7	11.1	13.0	11.1	13.0	11.1	13.0	10.5	9.2	10.5	9.2	1.2	30
Rye % of Total	570	1,195	869	2,666	20	0.7	20	0.7	1,134	1,070	1,134	1,070	1,134	1,070	-	0.1	-	0.1	-	-
Other Rye % of Total	0.6	1.2	2.1	3.4	0.1	0.3	0.1	0.3	2.4	2.3	2.4	2.3	2.4	2.3	-	-	-	-	-	-
Flaxseed % of Total	55	355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Flaxseed for Crushing % of Total	0.1	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
Low Erucic Acid Rape % of Total	1,583	629	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45
Other Rapeseed % of Total	14,089	22,596	5,102	10,372	2,886	4,682	2,886	4,682	5,929	7,119	5,929	7,119	5,929	7,119	4,049	3,901	4,049	3,901	1.2	698
Misc. Crops % of Total	280	23.4	8	27.2	9.8	17.1	9.8	17.1	12.4	15.5	12.4	15.5	12.4	15.5	7.5	7.4	7.5	7.4	-	-
Summer Fallow % of Total	35,187	-	10,364	-	8,657	-	8,657	-	16,553	-	16,553	-	16,553	-	19,510	-	19,510	-	-	-
Subtotal % of Total	88,858	96,410	31,964	38,156	24,200	27,460	24,200	27,460	39,936	45,995	39,936	45,995	39,936	45,995	49,686	52,718	49,686	52,718	-	-
Perennial Forage % of Total	8,733	100.0	9,901	100.0	82.1	100.0	82.1	100.0	7,854	100.0	7,854	100.0	7,854	100.0	92.6	100.0	92.6	100.0	-	-
TOTAL IMPROVED ACRES % of Total	97,591	96,410	41,865	38,156	29,481	27,460	29,481	27,460	47,790	45,995	47,790	45,995	47,790	45,995	53,675	52,718	53,675	52,718	-	-
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Villages (continued)													
	46 Medstead			47 Speers			48 Mayfair			49 Maymont			50 Mervin	
	Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum % of Total	-	-	60	60	60	-	-	-	60	-	60	-	-	-
Other Durum % of Total	-	-	0.1	0.1	0.1	-	-	-	0.1	-	0.1	-	-	-
All Other Wheat % of Total	-	-	400	100	400	-	-	-	-	-	-	-	-	-
Oats % of Total	1,894	6,156	32,744	11,557	32,744	4,366	13,423	32,977	13,455	4,711	32,977	19,753	4,711	19,753
Selected Oats % of Total	4.3	14.4	64.1	22.5	64.1	15.1	46.6	28.5	28.5	11.7	70.0	49.7	11.7	49.7
Barley % of Total	7,269	6,899	369	1,564	369	3,740	1,721	1,253	2,561	3,825	1,253	2,184	3,825	2,184
Selected Barley % of Total	16.5	16.1	0.7	3.1	0.7	12.9	6.0	2.7	5.4	9.5	2.7	5.5	9.5	5.5
Rye % of Total	-	50	520	-	520	-	0.7	350	-	-	350	340	-	340
Other Rye % of Total	12,234	24,116	5,746	8,650	5,746	4,939	8,931	4,430	5,416	7,713	4,430	10,804	7,713	10,804
Flaxseed % of Total	27.9	56.2	11.2	16.9	11.2	17.0	31.0	9.4	11.5	19.1	9.4	27.2	19.1	27.2
Flaxseed for Crushing % of Total	-	700	3,950	-	3,950	-	1,000	1,050	-	-	1,050	750	-	750
Low Erucic Acid Rape % of Total	46	1.6	7.7	-	7.7	-	3.5	2.2	-	-	2.2	1.9	-	1.9
Other Rapeseed % of Total	0.1	-	130	170	130	193	425	220	220	415	220	415	-	-
Misc. Crops % of Total	-	-	0.3	0.3	0.3	0.7	1.5	0.5	0.5	1.0	0.5	1.0	-	-
Summer Fallow % of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	-	-	612	368	612	-	-	-	-	-	-	-	-	-
Perennial Forage % of Total	-	-	1.2	0.7	1.2	-	-	-	-	-	-	-	-	-
TOTAL IMPROVED ACRES % of Total	346	346	137	137	137	250	150	440	553	265	440	265	265	265
	0.8	0.8	0.3	0.3	0.3	0.8	0.5	0.9	1.2	0.7	0.9	0.6	0.7	0.6
	2,437	4,628	6,443	7,119	6,443	2,453	2,910	6,307	5,438	5,070	6,307	5,641	5,070	5,641
	5.5	10.8	12.6	13.9	12.6	8.5	10.1	13.4	11.5	12.6	13.4	14.2	12.6	14.2
	-	-	-	72	-	16	-	-	480	-	-	-	-	-
	14,013	-	-	0.1	-	0.1	-	-	1.0	-	-	-	-	-
	31.9	-	-	20,280	-	11,518	-	-	15,951	-	-	-	13,807	-
	38,239	42,895	51,111	39.5	-	39.8	-	-	33.7	-	-	-	34.2	-
	87.0	100.0	100.0	50,077	51,111	27,475	28,790	47,087	44,134	35,806	47,087	39,737	35,806	39,737
	5,689	-	-	97.6	100.0	95.0	100.0	100.0	93.4	88.8	100.0	100.0	88.8	100.0
	13.0	-	-	1,237	-	1,446	-	-	3,121	4,507	-	-	4,507	-
	43,928	42,895	51,111	2.4	-	5.0	-	-	6.6	11.2	-	-	11.2	-
	100.0	100.0	100.0	51,314	51,111	28,921	28,790	47,087	47,255	40,313	47,087	39,737	40,313	39,737
	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Villages (concluded)				Towns			
	51 Meota		52 Shell Lake		53 Rabbit Lake		54 Marcelin	
	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-
Other Durum	-	100	-	-	-	220	-	-
% of Total	-	0.5	-	-	-	0.4	-	-
All Other Wheat	4,509	14,210	7,282	23,560	7,664	39,628	11,416	31,477
% of Total	21.7	68.6	14.1	47.5	11.1	68.3	12.6	39.7
Oats	408	9	6,275	2,834	5,988	515	5,580	3,902
% of Total	2.0	0.1	12.1	5.7	8.6	0.9	6.2	4.9
Selected Oats	-	-	-	197	-	20	-	50
% of Total	-	-	-	0.4	-	0.1	-	0.1
Barley	2,281	2,075	9,218	19,148	14,818	8,780	13,226	25,748
% of Total	10.9	10.0	17.8	38.6	21.4	15.2	14.6	32.5
Selected Barley	-	500	-	450	-	2,450	-	1,500
% of Total	-	2.4	-	0.9	-	4.2	-	1.9
Rye	363	100	331	405	837	655	35	50
% of Total	1.8	0.5	0.6	0.8	1.2	1.1	0.1	0.1
Other Rye	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-
Flaxseed	165	240	-	-	-	140	-	-
% of Total	0.8	1.2	-	-	-	0.2	-	-
Flaxseed for Crushing	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-
Low Erucic Acid Rape	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-
Other Rapeseed	3,498	3,467	-	-	70	946	-	10
% of Total	16.9	16.7	1,624	3,032	0.1	1.6	-	0.1
Misc. Crops	330	-	3.1	6.1	9,473	4,634	9,733	16,382
% of Total	1.6	-	4,113	20.4	13.7	8.0	10.7	20.7
Summer Fallow	8,080	-	7.9	-	56	-	895	-
% of Total	38.9	-	16,326	-	0.1	-	1.0	-
Subtotal	19,634	20,701	31.5	-	26,483	-	26,135	-
% of Total	94.6	100.0	45,169	69,085	38.2	57,988	28.8	79,119
Perennial Forage	1,112	-	87.1	100.0	94.4	100.0	67,020	79,119
% of Total	5.4	-	6,703	-	3,915	-	74.0	100.0
TOTAL IMPROVED ACRES	20,746	20,701	51,872	49,626	69,304	57,988	23,575	79,119
% of Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	56 Leoville				57 Borden				58 Edam				59 Radisson				60 Canwood			
	Seeded & Summer Acreage	Fallow	Quota Acres		Seeded & Summer Acreage	Fallow	Quota Acres		Seeded & Summer Acreage	Fallow	Quota Acres		Seeded & Summer Acreage	Fallow	Quota Acres		Seeded & Summer Acreage	Fallow	Quota Acres	
Hercules Durum	-	-	-	32	87	-	-	-	-	-	-	-	445	-	450	-	-	-	-	-
% of Total	-	-	-	0.1	0.1	-	-	-	-	-	-	-	0.7	-	0.7	-	-	-	-	-
Other Durum	-	-	-	340	90	-	-	-	-	-	-	-	446	-	446	-	-	-	-	-
% of Total	-	-	-	0.4	0.1	-	-	-	-	-	-	-	0.7	-	0.7	-	-	-	-	-
All Other Wheat	3,621	-	13,485	62,612	19,742	14,436	50,880	-	14,593	-	48,502	-	14,593	13,525	48,998	-	-	-	-	-
% of Total	6.6	-	26.6	71.8	22.2	17.6	65.7	-	22.1	-	74.2	-	22.1	11.6	42.8	-	-	-	-	-
Oats	7,725	-	6,772	2,303	9,465	8,723	4,036	-	5,876	-	1,030	-	5,876	6,488	3,083	-	-	-	-	-
% of Total	14.1	-	13.3	2.6	10.6	10.7	5.2	-	8.9	-	1.6	-	8.9	5.5	2.7	-	-	-	-	-
Selected Oats	-	-	310	1,405	-	-	175	-	-	-	480	-	-	-	60	-	-	-	-	-
% of Total	-	-	0.6	1.6	-	-	0.2	-	-	-	0.7	-	-	-	0.1	-	-	-	-	-
Barley	13,804	-	22,492	11,505	14,174	7,947	11,738	-	11,123	-	7,272	-	11,123	19,950	31,281	-	-	-	-	-
% of Total	25.2	-	44.3	13.2	15.9	9.7	15.1	-	16.8	-	11.1	-	16.8	17.1	27.3	-	-	-	-	-
Selected Barley	-	-	1,450	3,350	-	-	1,000	-	-	-	2,250	-	-	-	300	-	-	-	-	-
% of Total	-	-	2.9	3.9	-	-	1.3	-	-	-	3.4	-	-	-	0.2	-	-	-	-	-
Rye	380	-	455	-	701	2,089	1,474	-	471	-	570	-	471	572	770	-	-	-	-	-
% of Total	0.7	-	0.9	-	0.8	2.6	1.9	-	0.7	-	0.9	-	0.7	0.5	0.6	-	-	-	-	-
Other Rye	-	-	-	535	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-	-
% of Total	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-
Flaxseed	67	-	335	180	55	-	-	-	-	-	190	-	-	-	-	-	-	-	-	-
% of Total	0.1	-	0.6	0.2	0.1	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-
Flaxseed for Crushing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Low Erucic Acid Rape	120	-	100	1,154	1,154	160	160	-	-	-	795	-	-	-	50	-	-	-	-	-
% of Total	0.2	-	0.2	1.3	1.3	0.2	0.2	-	-	-	0.2	-	-	-	0.1	-	-	-	-	-
Other Rapeseed	3,564	-	5,375	3,725	3,736	7,708	8,040	-	3,778	-	3,369	-	3,778	19,573	432	-	-	-	-	-
% of Total	6.5	-	10.6	4.3	4.2	9.4	10.4	-	1.0	-	5.2	-	1.0	16.8	0.4	-	-	-	-	-
Misc. Crops	20	-	-	-	507	322	-	-	630	-	-	-	630	130	25.7	-	-	-	-	-
% of Total	0.1	-	-	-	0.6	0.4	-	-	5.7	-	-	-	5.7	0.1	-	-	-	-	-	-
Summer Fallow	15,539	-	-	-	31,020	26,866	-	-	22,594	-	-	-	22,594	42,699	-	-	-	-	-	-
% of Total	28.4	-	-	-	34.8	32.8	-	-	34.1	-	-	-	34.1	36.6	-	-	-	-	-	-
Subtotal	44,840	-	50,774	87,141	80,731	68,251	77,503	-	60,310	-	65,354	-	60,310	103,299	114,502	-	-	-	-	-
% of Total	81.9	-	100.0	100.0	90.7	83.4	100.0	-	91.2	-	100.0	-	91.2	88.5	100.0	-	-	-	-	-
Perennial Forage	9,932	-	-	-	8,298	13,564	-	-	5,875	-	-	-	5,875	13,429	-	-	-	-	-	-
% of Total	18.1	-	-	-	9.3	16.6	-	-	8.8	-	-	-	8.8	11.5	-	-	-	-	-	-
TOTAL IMPROVED ACRES	54,772	-	50,774	87,141	89,029	81,815	77,503	-	66,185	-	65,354	-	66,185	116,728	114,502	-	-	-	-	-
% of Total	100.0	-	100.0	100.0	100.0	100.0	100.0	-	100.0	-	100.0	-	100.0	100.0	100.0	-	-	-	-	-

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Towns (concluded)													
	61 Glaslyn			62 Hafford			63 Big River			64 Turtleford			65 Leask	
	Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres		Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum	-	-	-	-	-	-	-	-	-	-	-	-	100	100
% of Total	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1
Other Durum	-	-	-	-	50	-	-	-	-	-	-	-	-	60
% of Total	-	-	-	-	0.1	-	-	-	-	-	-	-	-	0.1
All Other Wheat	6,912	18,748	-	25,989	65,434	-	718	3,363	-	11,869	37,807	-	23,782	74,466
% of Total	11.4	32.6	-	27.9	71.5	-	2.2	13.3	-	15.6	50.8	-	19.2	63.5
Oats	7,200	4,298	-	7,850	1,966	-	4,409	5,282	-	8,934	3,433	-	10,212	3,585
% of Total	11.9	7.5	-	8.4	2.1	-	13.6	20.9	-	11.7	4.6	-	8.2	3.0
Selected Oats	-	346	-	-	967	-	-	446	-	-	100	-	-	50
% of Total	-	0.6	-	-	1.1	-	-	1.8	-	-	0.1	-	-	0.1
Barley	11,974	21,548	-	12,391	12,135	-	5,404	11,967	-	13,182	21,361	-	19,554	19,657
% of Total	19.7	37.4	-	13.3	13.3	-	16.7	47.4	-	17.3	28.7	-	15.7	16.8
Selected Barley	-	1,045	-	-	3,300	-	-	-	-	-	1,000	-	-	2,503
% of Total	-	1.8	-	-	3.6	-	-	-	-	-	1.3	-	-	2.1
Rye	445	707	-	403	321	-	-	-	-	279	265	-	2,421	2,742
% of Total	0.7	1.2	-	0.4	0.4	-	-	-	-	0.3	0.3	-	1.9	2.3
Other Rye	-	-	-	-	100	-	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-
Flaxseed	-	-	-	25	105	-	-	-	-	-	-	-	40	50
% of Total	-	-	-	0.1	0.1	-	-	-	-	-	-	-	0.1	0.1
Flaxseed for Crushing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Low Erucic Acid Rape	-	-	-	620	545	-	-	-	-	20	20	-	2,689	3,011
% of Total	-	-	-	0.7	0.6	-	-	-	-	0.1	0.1	-	2.2	2.5
Other Rapeseed	7,462	10,796	-	6,364	6,536	-	1,880	4,193	-	8,365	10,457	-	8,941	11,015
% of Total	12.3	18.8	-	6.8	7.1	-	5.8	16.6	-	11.0	14.1	-	7.2	9.4
Misc. Crops	40	-	-	84	-	-	-	-	-	135	-	-	85	-
% of Total	0.1	-	-	0.1	-	-	-	-	-	0.2	-	-	0.1	-
Summer Fallow	17,455	-	-	30,780	-	-	7,917	-	-	25,033	-	-	33,713	-
% of Total	28.7	-	-	33.0	-	-	24.4	-	-	32.8	-	-	27.1	-
Subtotal	51,488	57,538	-	84,506	91,459	-	20,328	25,251	-	67,817	74,443	-	101,537	117,239
% of Total	84.8	100.0	-	90.7	100.0	-	62.7	100.0	-	89.0	100.0	-	81.8	100.0
Perennial Forage	9,236	-	-	8,652	-	-	12,063	-	-	8,358	-	-	22,623	-
% of Total	15.2	-	-	9.3	-	-	37.3	-	-	11.0	-	-	18.2	-
TOTAL IMPROVED ACRES	60,724	57,538	-	93,158	91,459	-	32,391	25,251	-	76,175	74,443	-	124,160	117,239
% of Total	100.0	100.0	-	100.0	100.0	-	100.0	100.0	-	100.0	100.0	-	100.0	100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (continued)

	Greater Towns				Cities			
	66 Spiritwood		67 Shellbrook		68 Meadow Lake		69 North Battleford	
	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum	-	-	-	-	-	-	20	-
% of Total	-	-	-	-	-	-	0.1	-
Other Durum	-	70	-	-	150	350	259	1,747
% of Total	-	0.1	-	-	0.1	0.1	0.3	2.2
All Other Wheat	10,923	34,084	15,727	55,663	35,805	110,893	11,397	42,396
% of Total	12.0	38.7	12.4	44.9	11.9	38.9	14.5	54.3
Oats	9,515	2,996	8,388	3,008	39,600	19,404	2,731	383
% of Total	10.5	3.4	6.6	2.4	13.1	6.8	3.5	0.5
Selected Oats	-	273	-	191	-	1,228	-	50
% of Total	-	0.3	-	0.2	-	0.4	-	0.1
Barley	22,562	35,550	24,657	34,080	45,510	51,842	7,773	7,742
% of Total	24.9	40.4	19.5	27.5	15.1	18.2	9.9	9.9
Selected Barley	-	4,800	-	1,250	-	10,200	-	2,000
% of Total	-	5.4	-	1.0	-	3.6	-	2.6
Rye	684	715	2,201	3,813	2,405	3,723	624	570
% of Total	0.7	0.8	1.7	3.0	0.8	1.3	0.8	0.7
Other Rye	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-
Flaxseed	-	-	-	-	40	100	122	353
% of Total	-	-	-	-	0.1	0.1	0.1	0.5
Flaxseed for Crushing	-	-	-	-	-	-	-	-
% of Total	-	-	-	-	-	-	-	-
Low Erucic Acid Rape	330	260	702	844	-	50	1,912	1,725
% of Total	0.4	0.3	0.6	0.7	-	0.1	2.4	2.2
Other Rapeseed	5,661	9,323	16,989	25,154	54,034	87,107	18,203	21,100
% of Total	6.2	10.6	13.4	20.3	17.9	30.5	23.0	27.0
Misc. Crops	254	-	98	-	802	-	-	-
% of Total	0.3	-	0.1	-	0.2	-	-	-
Summer Fallow	29,246	-	42,936	-	74,731	-	30,891	-
% of Total	32.3	-	33.9	-	24.8	-	39.2	-
Subtotal	79,175	88,071	111,698	124,003	253,077	284,897	73,932	78,066
% of Total	87.3	100.0	88.2	100.0	84.0	100.0	93.8	100.0
Perennial Forage	11,484	-	14,970	-	48,104	-	4,912	-
% of Total	12.7	-	11.8	-	16.0	-	6.2	-
TOTAL IMPROVED ACRES	90,659	88,071	126,668	124,003	301,181	284,897	78,844	78,066
% of Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(continued)

TABLE 3.9 SEEDED AND QUOTA ACRES BY DELIVERY POINT, 1971-72 (concluded)

	Study Area Total		Sask. Total	
	Seeded & Summer Fallow Acreage	Quota Acres	Seeded & Summer Fallow Acreage	Quota Acres
Hercules Durum	1,182	1,002	622,939	590,476
% of Total	0.1	0.1	1.3	1.3
Other Durum	1,007	6,418	1,286,793	3,067,045
% of Total	0.1	0.8	2.8	6.6
All Other Wheat	438,864	1,388,342	11,722,928	30,679,714
% of Total	15.7	51.2	25.0	66.3
Oats	239,105	116,954	2,256,816	721,011
% of Total	8.5	4.3	4.8	1.6
Selected Oats	-	12,060	-	199,139
% of Total	-	0.4	-	0.4
Barley	462,783	605,293	5,911,806	4,516,871
% of Total	16.5	22.4	12.6	9.7
Selected Barley	-	75,803	-	1,687,420
% of Total	-	2.8	-	3.6
Rye	24,236	27,758	553,540	518,274
% of Total	0.8	1.0	1.2	1.1
Other Rye	-	852	-	41,442
% of Total	-	0.1	-	0.1
Flaxseed	1,634	4,683	943,274	999,292
% of Total	0.1	0.2	2.0	2.2
Flaxseed for Crushing	-	285	-	29,883
% of Total	-	0.0	-	0.1
Low Erucic Acid Rape	22,084	20,779	342,957	314,930
% of Total	0.8	0.8	0.7	0.7
Other Rapeseed	332,427	445,878	2,491,714	2,936,822
% of Total	11.9	16.5	5.3	6.3
Misc. Crops	11,235	-	329,088	-
% of Total	0.4	-	0.7	-
Summer Fallow	924,997	-	17,363,690	-
% of Total	33.0	-	37.0	-
Subtotal	2,459,554	2,706,107	43,825,545	46,302,319
% of Total	87.9	100.0	93.4	100.0
Perennial Forage	339,103	-	3,078,976	-
% of Total	12.1	-	6.6	-
TOTAL ACRES	2,798,657	2,706,107	46,904,521	46,302,319
% of Total	100.0	100.0	100.0	100.0

Source: Canadian Wheat Board, Winnipeg.

Acres Devoted to Canadian Wheat Board Grains

An accepted division of crops separates wheat, durum wheat, oats and barley, the Wheat Board grains, from other cereals and oilseeds. Tables 3.10A and 3.10B indicate the extent to which farmers in the hinterland of each delivery point rely on the Wheat Board to market their crops. For grains sold through the Board, these tables present a time series of seeded acres, 1962-63 to 1970-71, and quota acres, 1971-72. Percentages of seeded or quota acres to total specified or quota acres are also given.

From 1962-63 to 1969-70, the percentages of seeded acres in Board grains were fairly uniform. For the study area, the percentages of seeded acres to total specified acres ranged from a low of 52.1 to a high of 59.5 (Table 3.10A).

In 1970-71, as Table 3.10B shows, the acreage in Board grains dropped to 34.4 percent of total acres, reflecting the decline in seeded acres that year. In contrast, most percentages of seeded acres at delivery points in 1971-72 ranged from 80.0 to 90.0. These percentages, as well as the average for the entire study area, 81.5 percent, were much higher than the corresponding figures for any previous year. The data for quota acres in Table 3.10B is, of course, not fully comparable with the data for specified acres in Table 3.10A.

TABLE 3.10A NUMBER AND PERCENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS^a, 1962-63 TO 1969-70

Delivery Point	1962-63 ^b		1963-64		1964-65		1965-66		1966-67		1967-68		1968-69		1969-70	
	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%
<i>Too Small to Classify</i>																
1 Hartwell	*		*		Closed		*		Closed							
2 Cameo	*		*													
3 Bournemouth	3,021	57.3	2,931	54.8	2,426	47.2	2,194	48.1		58.3	2,929	48.3	3,727	55.0	3,690	49.0
4 Dulwich	5,864	53.6	5,640	52.4	4,840	49.1	4,812	48.5	Closed							
5 Cleeves	6,881	52.0	6,983	51.2	5,061	48.7	3,524	47.8	Closed							
6 Ormeaux	5,589	49.1	6,022	42.2	6,342	44.0	6,285	41.6	2,907	47.9						
7 Ordale	7,707	40.4	7,612	46.6	7,256	45.8	4,908	44.5	5,445	41.7						
8 Tallman	17,898	60.5	17,338	58.9	18,469	63.6	17,319	61.9	4,785	47.1			5,244	48.2	5,003	50.2
9 Kilwinning	*		*				Closed		18,323	62.8	17,764	64.2	16,540	62.7	10,623	54.1
10 Redberry	3,654	62.2	5,040	69.6	5,341	66.6	5,437	68.7	5,844	71.4	5,344	65.0	*		*	
11 Scentgrass	9,673	55.1	11,376	58.8	10,242	55.8	9,882	56.9	9,565	57.9	9,339	55.2	9,088	50.7	8,895	47.9
12 Polwarth	4,949	51.4	5,622	55.8	5,566	54.8	5,100	53.9	5,059	54.8	4,768	53.4	5,471	55.7	4,581	48.7
13 Cater	3,626	56.2	4,120	57.8	2,969	49.8	1,621	52.9	1,131	42.4	1,383	48.7	*		*	
14 Brada	13,055	58.5	14,868	63.0	15,395	62.7	16,485	72.1	15,438	69.3	17,239	68.8	14,091	56.8	11,641	51.3
15 Lilac	15,606	58.1	16,287	61.3	16,810	60.7	16,458	62.5	16,927	61.2	16,886	63.6	15,490	59.7	12,503	51.1
16 Ifley	10,028	56.7	9,288	54.3	8,271	52.3	9,278	56.5	8,226	55.4	6,863	46.6	5,360	49.2	4,893	48.6
17 Ranger	7,929	68.5	7,930	65.8	7,149	64.6	6,980	63.4	6,529	57.1	6,929	64.0	7,456	63.2	6,330	60.4
<i>Hamlets</i>																
18 Hatherleigh	4,573	62.9	4,236	61.5	4,706	61.9	4,053	56.7	4,486	63.8	5,445	56.3	6,858	61.9	5,469	58.6
19 Redfield	10,520	62.3	6,898	62.7	6,996	62.2	5,897	62.5	6,550	68.2	9,961	62.3	11,792	60.6	9,885	58.8
20 Hamlin	19,783	53.5	20,749	54.1	22,035	55.9	23,444	57.5	23,601	58.5	24,865	57.0	23,517	53.0	22,094	50.8
21 Crutwell	6,749	52.6	7,880	56.6	7,562	55.8	3,400	54.8	2,965	54.6	2,813	55.2	*		*	
22 Cavalier	16,887	51.9	16,974	52.5	16,698	51.0	17,315	52.9	16,632	51.5	17,503	54.7	18,952	52.8	15,726	46.0
23 Keatley	16,351	59.3	16,539	60.7	17,237	60.1	18,048	61.3	17,674	63.1	16,601	60.5	17,561	60.3	15,676	55.1
24 Bapaume	10,710	60.6	11,818	61.0	10,918	60.1	11,857	57.6	10,811	59.2	12,138	58.4	12,816	56.9	19,705	58.8
25 Robinhood	9,849	61.3	9,694	63.4	9,270	56.9	9,067	60.4	9,458	57.0	10,100	57.1	12,586	58.6	11,252	53.9
26 Fairholme	8,076	63.2	7,186	61.4	6,739	60.0	6,279	61.1	7,796	63.2	8,016	58.2	10,409	62.9	10,498	55.2
27 Sandwith	4,856	60.3	5,556	62.2	5,803	57.9	5,436	57.2	6,252	56.7	5,986	53.7	8,490	62.4	7,880	55.7
28 Mildred	9,989	58.4	9,055	55.0	9,299	53.9	9,610	56.6	8,356	52.1	5,868	46.8	7,532	54.3	7,120	51.1
29 Belbutte	9,921	60.5	9,298	60.0	10,055	59.1	7,933	61.8	7,321	57.7	7,140	54.1	7,075	56.5	*	
30 Prince	19,680	52.6	20,004	54.1	20,004	54.1	19,636	53.6	22,698	58.6	22,441	55.8	23,246	51.9	22,549	48.7
31 Richard	26,940	58.6	28,490	57.8	30,055	61.2	29,341	59.9	30,514	60.0	31,342	60.2	29,466	57.5	23,778	51.9
32 Denholm	24,727	59.8	25,912	60.6	26,657	62.8	29,806	64.1	30,861	64.1	31,909	63.5	30,762	60.5	25,949	52.6
33 Ruddell	11,220	60.1	12,656	64.3	11,624	58.6	13,029	64.8	13,593	67.2	12,084	60.6	11,789	59.5	10,628	56.2
34 Alticane	12,327	61.7	12,797	64.2	13,134	66.8	10,536	61.5	9,805	64.0	9,111	63.7	8,524	59.6	9,098	59.7
35 Glenbush	12,889	60.4	12,814	61.5	11,654	55.9	13,048	58.9	13,206	58.5	11,529	54.4	13,535	61.8	12,622	54.6
36 Fielding	16,574	55.5	16,410	56.3	16,321	55.3	17,263	58.1	17,614	59.2	18,028	59.4	16,104	56.4	14,430	50.8
37 Mont Nebo	10,227	46.7	9,538	45.9	9,655	46.1	9,588	44.7	9,759	45.1	10,857	45.5	8,927	46.4	8,073	44.3
<i>Villages</i>																
38 Whitkow	26,417	63.3	29,615	64.9	27,335	61.9	27,119	62.8	27,720	67.3	14,365	60.6	12,630	60.3	11,260	56.5
39 Mullingar	12,311	58.1	12,413	59.9	12,744	59.5	11,155	58.7	10,929	56.1	11,551	54.1	11,076	58.1	8,260	53.4
40 Holbein	33,042	52.2	35,054	51.2	39,706	55.3	39,763	53.4	42,855	54.8	42,273	51.7	45,095	51.5	40,985	47.7

See footnotes at end of table

(continued)

TABLE 3.10A NUMBER AND PERCENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS^a, 1962-63 TO 1969-70

Delivery Point	1962-63 ^b		1963-64		1964-65		1965-66		1966-67		1967-68		1968-69		1969-70	
	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%
41 Parkside	21,494	50.0	19,134	45.0	20,409	46.0	20,390	47.1	19,548	46.3	16,771	41.3	20,971	50.7	18,894	47.1
42 Makwa	19,749	65.1	20,448	61.2	19,736	58.6	20,013	61.9	17,792	55.6	17,279	54.5	22,902	59.6	21,422	59.0
43 Livelong	15,410	56.0	15,404	52.5	15,449	51.2	14,623	52.3	14,177	52.6	14,460	53.2	16,743	54.0	14,536	52.3
44 Vawn	18,562	47.5	19,565	49.6	19,618	49.4	19,470	51.4	19,177	50.9	19,969	50.3	20,037	45.5	18,891	43.0
45 Krydor	31,163	63.2	32,297	65.2	34,027	67.7	31,166	64.6	31,134	64.8	29,804	62.6	31,069	60.8	28,394	54.2
46 Medstead	13,126	56.6	13,859	57.4	14,891	55.8	17,721	57.5	16,488	54.1	18,050	57.2	23,133	58.1	23,468	55.2
47 Speers	22,958	55.2	22,926	53.1	24,417	56.6	24,205	58.1	23,517	58.5	23,730	58.9	23,437	56.5	24,032	51.8
48 Mayfair	13,559	58.8	13,863	58.6	13,539	55.6	15,858	59.7	15,521	57.6	16,413	61.4	16,161	56.2	15,242	53.3
49 Maymont	23,502	58.5	23,386	57.9	24,016	58.1	25,393	60.6	25,129	61.4	25,246	58.8	24,717	57.3	23,133	48.7
50 Mervin	19,875	53.4	19,538	52.6	20,673	51.1	21,011	54.0	19,249	49.8	19,586	51.0	22,033	53.3	19,477	45.5
51 Meota	12,558	55.5	12,073	53.5	11,704	53.0	11,580	54.1	12,199	55.3	12,909	56.6	9,034	50.2	8,093	44.8
52 Shell Lake	21,723	51.1	20,783	50.1	21,874	51.2	22,366	51.2	21,780	49.2	21,549	49.3	22,502	48.2	24,804	49.4
53 Rabbit Lake	17,178	55.8	17,785	58.6	15,198	51.9	17,266	56.0	17,118	54.6	18,245	50.0	26,509	59.4	27,803	54.3
54 Marcelin	34,158	59.4	34,796	58.6	35,216	61.1	35,832	62.3	36,593	62.3	35,808	62.0	34,630	58.5	32,856	56.5
<i>Towns</i>																
55 Debben	23,526	48.5	30,406	50.2	31,394	50.7	31,582	49.7	32,997	49.7	39,010	47.1	41,848	47.4	39,994	46.2
56 Leoville	25,113	57.1	25,636	56.6	26,530	56.2	26,800	56.6	25,968	55.6	26,135	54.2	24,192	52.6	24,962	52.7
57 Borden	50,693	59.9	49,992	58.7	49,784	59.4	50,391	59.7	51,895	61.1	49,370	58.5	50,293	59.0	47,858	54.9
58 Edam	27,535	48.8	27,712	48.7	28,191	47.2	27,427	47.0	32,219	47.8	32,828	49.7	35,920	50.9	34,890	46.8
59 Radisson	37,582	59.7	38,611	59.7	38,484	58.8	37,997	57.6	38,857	60.1	38,383	57.7	37,032	56.8	34,378	52.2
60 Canwood	46,437	51.5	49,023	52.2	50,811	53.3	50,438	53.8	52,257	53.7	50,441	52.0	54,848	51.7	48,292	46.2
61 Glaslyn	27,498	58.4	28,361	57.6	27,155	53.6	30,919	60.9	28,466	57.8	27,046	55.6	30,770	57.8	30,263	55.1
62 Hafford	51,370	62.5	49,778	62.6	53,807	67.1	50,523	64.1	50,660	64.5	52,114	64.0	55,153	62.7	50,268	53.7
63 Big River	8,727	48.3	8,613	45.1	8,560	43.9	8,773	44.2	8,735	40.1	9,004	39.5	10,310	40.1	12,010	43.9
64 Turtleford	26,265	57.5	28,276	57.7	28,170	55.0	27,869	54.2	28,776	55.9	34,098	55.7	37,009	55.2	36,977	53.9
65 Leask	54,148	51.5	56,492	50.6	55,365	50.4	55,985	50.3	58,120	51.8	59,420	52.1	58,736	51.2	58,902	50.0
<i>Greater Towns</i>																
66 Spiritwood	41,998	58.9	41,407	57.5	43,034	57.7	43,603	59.0	43,466	58.2	44,490	55.9	50,541	57.3	52,750	57.4
67 Shellbrook	56,468	52.7	54,328	50.6	55,668	52.2	52,610	52.7	54,061	53.5	50,730	50.4	55,578	51.0	48,394	45.8
68 Meadow Lake	145,749	63.9	138,643	62.4	132,095	59.7	116,602	57.6	111,164	56.2	110,465	54.5	142,784	61.2	139,633	60.1
<i>Cities</i>																
69 North Battleford	31,007	54.6	30,073	55.1	29,779	55.9	31,835	57.7	36,772	60.7	35,320	57.1	34,703	54.1	36,078	50.4
Study Area Total	1,389,029	56.7	1,405,936	59.5	1,411,938	56.1	1,393,148	56.5	1,398,547	56.5	1,385,041	55.1	1,464,804	56.2	1,377,790	52.1

*Storage only.

^aWheat Board Grains are wheat, durum, oats and barley.

^bDurum excluded from Wheat Board Grains in 1962-63.

Source: Canadian Wheat Board, Winnipeg.

TABLE 3.10B NUMBER AND PERCENT OF QUOTA ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, 1970-71 AND 1971-72

Delivery Point	1970-71 ^a		1971-72 ^b	
	Seeded Acres ^c	Percent ^d	Assigned Quota Acres ^e	% of Total Quota Acres
<i>Too Small to Classify</i>				
1 Hartwell	Closed	-	-	-
2 Cameo	Closed	-	-	-
3 Bournemouth	Closed	-	-	-
4 Dulwich	Closed	-	-	-
5 Cleeves	Closed	-	-	-
6 Ormeaux	Closed	-	-	-
7 Ordale	Closed	-	-	-
8 Tallman	5,460	32.2	14,390	84.7
9 Kilwinning	Closed	-	-	-
10 Redberry	Storage only		Closed	-
11 Scentgrass	4,776	29.4	12,632	72.7
12 Polwarth	2,544	31.2	7,943	74.8
13 Cater	Storage only		Closed	-
14 Brada	3,212	16.4	16,426	74.5
15 Lilac	5,575	27.4	19,528	78.6
16 Iffley	4,320	36.2	12,995	86.1
17 Ranger	Closed	-	-	-
<i>Hamlets</i>				
18 Hatherleigh	Storage only		Closed	-
19 Redfield	4,595	36.2	7,815	83.8
20 Hamlin	8,756	23.8	33,693	70.5
21 Crutwell	Storage only		Closed	-
22 Cavalier	8,579	29.1	26,825	79.2
23 Keatley	9,076	34.5	21,770	81.2
24 Bapaume	16,918	45.5	38,478	95.4
25 Robinhood	7,652	39.3	17,628	90.0
26 Fairholme	5,305	37.0	12,289	78.1
27 Sandwith	5,712	37.6	12,694	84.7
28 Mildred	5,579	39.3	13,622	91.4
29 Belbutte	Storage only		Closed	-
30 Prince	11,839	28.2	39,010	83.5
31 Richard	10,066	26.4	37,066	81.5
32 Denholm	9,429	22.0	39,861	75.1
33 Ruddell	5,002	27.6	14,811	82.8
34 Alticane	6,890	45.2	17,046	94.8

See footnotes at end of table

(continued)

TABLE 3.10B NUMBER AND PERCENT OF QUOTA ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, 1970-71 AND 1971-72 (continued)

Delivery Point	1970-71 ^a		1971-72 ^b	
	Seeded Acres ^c	Percent ^d	Assigned Quota Acres ^e	% of Total Quota Acres
35 Glenbush	9,902	44.8	19,877	92.0
36 Fielding	8,565	31.1	24,886	88.1
37 Mont Nebo	5,130	30.4	15,968	79.4
<i>Villages</i>				
38 Whitkow	9,147	36.4	24,169	85.1
39 Mullingar	5,666	41.7	12,445	94.2
40 Holbein	25,939	32.9	71,635	74.3
41 Parkside	13,440	36.4	26,327	69.0
42 Makwa	Storage only		Closed	-
43 Livelong	12,256	43.8	22,748	82.8
44 Vawn	11,100	28.6	37,806	82.2
45 Krydor	17,629	35.2	48,017	91.1
46 Medstead	17,687	43.9	37,921	88.4
47 Speers	11,277	26.0	43,789	85.7
48 Mayfair	12,241	40.8	25,275	87.8
49 Maymont	12,000	28.6	40,120	85.2
50 Mervin	16,519	43.6	33,831	85.1
51 Meota	4,265	25.0	16,894	81.6
52 Shell Lake	15,945	32.9	46,189	93.1
53 Rabbit Lake	20,502	37.4	53,907	78.0
54 Marcelin	18,248	33.3	51,613	89.0
<i>Towns</i>				
55 Debden	25,080	30.0	62,677	79.2
56 Leoville	20,978	40.9	44,509	87.7
57 Borden	34,717	40.3	81,547	93.6
58 Edam	23,025	32.7	67,829	87.5
59 Radisson	22,547	36.0	60,430	92.5
60 Canwood	29,774	30.4	83,722	73.1
61 Glaslyn	24,884	43.7	45,985	79.9
62 Hafford	30,878	35.3	83,852	91.7
63 Big River	7,635	27.4	21,058	83.4
64 Turtleford	25,489	38.9	63,701	85.6
65 Leask	42,455	36.2	100,421	85.7
<i>Greater Towns</i>				
66 Spiritwood	37,748	43.0	77,773	88.3
67 Shellbrook	33,341	32.7	94,192	76.0
68 Meadow Lake	76,144	33.6	193,917	68.1

See footnotes at end of table

(continued)

TABLE 3.10B NUMBER AND PERCENT OF QUOTA ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, 1970-71 AND 1971-72 (concluded)

Delivery Point	1970-71 ^a		1971-72 ^b	
	Seeded Acres ^c	Percent ^d	Assigned Quota Acres ^e	% of Total Quota Acres
<i>Cities</i>				
69 North				
Battleford	16,125	27.6	54,318	69.6
Study Area Total	839,563	34.4	2,205,872	81.5

^aCalculated from Table 2.7.

^bCalculated from Table 3.9.

^cAcres seeded to CWB grains of wheat, durum, oats and barley.

^dCWB grains acreage as a percent of total acres devoted to CWB grains plus rye, summer fallow and forage crops (i.e., same composition as "specified acres" in previous years).

^eQuota acres assigned to CWB grains of wheat, durum, oats and barley.

Quotas Required to Fill Elevator Storage Capacity

Table 3.11 shows the relationship between elevator storage capacity and quota acres for the 1969-70 and 1971-72 crop years. For 1969-70, the quota acreage is simply the specified acreage; for 1971-72 the quota acreage is the assigned acreage as explained in the commentary for Table 3.8. The ratio of bushel capacity to quota acres represents the number of quotas in bushels per acre that are required to fill an empty delivery point. As quota acres increase relative to storage capacity, the number of quotas needed to fill the storage decreases and vice versa. The lower the ratio, the greater is the demand for space at a delivery point.

There does not appear to be any correlation between size of community and ratio nor any significant change in ratios between the two years. In 1969-70, the ratio varied from a low of 1.2 at Big River to a high of 7.8 at Mont Nebo. In 1971-72, the range was from 1.3 at Big River to 8.8 at Tallman. The average number of general quotas required to fill elevator capacity in the study area was 4.1 in 1969-70. The median number was 4.0 in 1969-70 and 3.8 in 1971-72. Thus, assuming zero inventory and no outward shipments, about half of the delivery points could accommodate a 4.0 bushel general quota in 1969-70 and about half could not. For example, Bapaume would be able to hold only half of a 4.0 bushel quota. To the extent that the Canadian Wheat Board seeks to equalize quota levels among producers, delivery points with a low capacity-to-quota acres ratio will, correspondingly, maintain a higher throughput ratio¹ than those points with a high capacity-to-quota acres ratio.

Table 3.11 also gives the approximate number of railway boxcars required at each delivery point to transport a one-bushel quota. Since the number of boxcars needed to move a one-bushel quota depends directly on the number of quota acres, which are usually proportionate to the size of a community, it generally follows that the required number of boxcars increases with the size of the delivery point.

In 1969-70, the number of boxcars required for a one-bushel quota ranged from 4 at Bournemouth to 117 at Meadow Lake. Altogether it took 1,322 boxcars to move a general one-bushel quota from the study area.

Assuming that the supply of boxcars at any point in time is limited, it may be said that a point like Denholm is disadvantaged relative to a point like Mont Nebo. Denholm requires 25 boxcars to move a one-bushel quota and can store 3.5 bushel quotas while Mont Nebo requires 10 boxcars to move a one-bushel quota and can store 7.8 bushel quotas.

¹The throughput ratio of a delivery point is the number of bushels it receives annually divided by its storage capacity in bushels. See Table 3.7.

TABLE 3.11 ELEVATOR CAPACITY VERSUS QUOTA ACRES AND NUMBER OF BOXCARS REQUIRED TO MOVE ONE BUSHEL PER QUOTA ACRE BY DELIVERY POINT

Delivery Point	Elevator Bushel Capacity Aug. 1/69	Quota Acres 1969-70 ^a	Ratio of Bushel Capacity to Quota Acres 1969-70	No. of Boxcars to Move One Bushel Per Quota Acre, 1969-70 ^b	Ratio of Bushel Capacity to Quota Acres, 1971-72
<i>Too Small to Classify</i>					
1 Hartwell	Closed				
2 Cameo	Closed				
3 Bournemouth	23,000	7,528	3.1	4	Closed
4 Dulwich	Closed				
5 Cleeves	Closed				
6 Ormeaux	Closed				
7 Ordale	56,000	9,965	5.6	5	Closed
8 Tallman	149,000	19,643	7.6	10	8.8
9 Kilwinning	Closed				
10 Redberry	40,000	Storage only			Closed
11 Scentgrass	61,000	18,570	3.3	10	3.5
12 Polwarth	50,000	9,400	5.3	5	4.7
13 Cater	30,000	Storage only			Closed
14 Brada	97,000	22,680	4.3	12	4.4
15 Lilac	79,000	24,456	3.2	13	3.2
16 Iffley	66,000	10,067	6.6	6	4.4
17 Ranger	28,000	10,474	2.7	6	Closed
<i>Hamlets</i>					
18 Hatherleigh	31,000	9,333	3.3	5	Closed
19 Redfield	37,000	16,800	2.2	9	4.0
20 Hamlin	132,000	43,517	3.0	22	2.8
21 Crutwell	73,000	Storage only			Closed
22 Cavalier	157,000	34,176	4.6	18	4.6
23 Keatley	171,000	28,434	6.0	15	6.4
24 Bapaume	70,700	33,517	2.1	17	1.8
25 Robinhood	88,000	20,890	4.2	11	4.5
26 Fairholme	57,000	19,005	3.0	10	3.6
27 Sandwith	56,000	14,156	4.0	8	3.7
28 Mildred	61,000	13,946	4.4	7	4.1
29 Belbutte	41,000	Storage only			Closed
30 Prince	152,000	46,348	3.3	24	3.3
31 Richard	209,000	45,850	4.6	23	4.6
32 Denholm	173,000	49,291	3.5	25	3.4
33 Ruddell	76,700	18,906	4.1	10	4.3
34 Alticane	97,100	15,245	6.4	8	5.4
35 Glenbush	122,000	23,119	5.3	12	5.6
36 Fielding	93,000	28,412	3.3	15	3.3
37 Mont Nebo	143,000	18,219	7.8	10	7.1
<i>Villages</i>					
38 Whitkow	64,600	19,935	3.2	10	2.3
39 Mullingar	86,000	15,470	5.6	8	6.5
40 Holbein	378,000	85,941	4.4	43	3.9
41 Parkside	182,000	40,115	4.5	21	4.8
42 Makwa	57,500	36,299	1.6	19	Closed
43 Livelong	80,000	27,795	2.9	14	2.9
44 Vawn	197,000	43,961	4.5	22	4.3
45 Krydor	189,000	52,392	3.6	27	3.6
46 Medstead	69,000	42,514	1.6	22	1.6
47 Speers	256,000	46,368	5.5	24	5.0
48 Mayfair	132,000	28,586	4.6	15	4.6
49 Maymont	147,000	44,028	3.3	22	3.1
50 Mervin	104,000	39,978	2.6	20	2.6
51 Meota	136,000	18,074	7.5	10	6.6

See footnotes at end of table

(continued)

TABLE 3.11 ELEVATOR CAPACITY VERSUS QUOTA ACRES AND NUMBER OF BOXCARS REQUIRED TO MOVE ONE BUSHEL PER QUOTA ACRE BY DELIVERY POINT (concluded)

Delivery Point	Elevator Bushel Capacity Aug. 1/69	Quota Acres 1969-70 ^a	Ratio of Bushel Capacity to Quota Acres 1969-70	No. of Boxcars to Move One Bushel Per Quota Acre, 1969-70 ^b	Ratio of Bushel Capacity to Quota Acres, 1971-72
52 Shell Lake	121,000	50,164	2.4	26	2.4
53 Rabbit Lake	238,000	51,150	4.7	26	3.4
54 Marcelin	413,600	58,190	7.1	30	7.1
<i>Towns</i>					
55 Debden	255,500	86,660	2.9	44	3.2
56 Leoville	120,100	47,389	2.5	24	2.4
57 Borden	370,000	87,139	4.2	44	4.2
58 Edam	172,000	74,518	2.3	38	2.2
59 Radisson	236,000	65,873	3.6	33	3.6
60 Canwood	438,000	104,460	4.2	53	3.8
61 Glaslyn	169,000	54,963	3.1	28	2.9
62 Hafford	231,000	93,525	2.5	47	2.5
63 Big River	32,000	27,383	1.2	14	1.3
64 Turtleford	256,000	68,621	3.7	35	3.4
65 Leask	519,500	117,744	4.4	59	4.4
<i>Greater Towns</i>					
66 Spiritwood	373,300	91,955	4.1	46	4.2
67 Shellbrook	675,000	105,634	6.4	53	5.4
68 Meadow Lake	1,083,400	232,166	4.7	117	3.8
<i>Cities</i>					
69 North Battleford	280,000	71,584	3.9	36	3.6
Study Area Total	10,781,000	2,642,521	4.1	1,322	4.0

^aSame as specified acres, Table 2.6.

^bAssume 2,000 bushels per boxcar.

Number of Boxcars Per Shunt That Can Be Loaded

The number of boxcars that an elevator operator can load in one group is limited by the length of the rail siding and by the location of his elevator on the siding. Although a siding may accommodate as many as twenty boxcars, perhaps only five or six cars can be loaded for collection by a freight train at one call. How many boxcars can be loaded per shunt is determined both by the number of car lengths to the ends of the siding and by the number of car lengths from the spout of an elevator belonging to one company to the spout of a neighboring elevator belonging to another company.

Data for each delivery point and for each elevator company is shown in Table 3.12. The number of boxcars that a delivery point can handle is usually proportionate to the size of the community, but considerable variation exists. The range in the number of boxcars is from 3 at Big River to 28 at both Borden and Meadow Lake. A total of 656 boxcars can be handled in the study area.

In a comparison of elevator capabilities at Prince and Whitkow (Tables 3.11 and 3.12), Prince requires 24 cars to move a one-bushel quota and 8 boxcars can be loaded per shunt, while Whitkow requires 10 boxcars to move a one-bushel quota and 19 boxcars can be loaded per shunt. Whitkow has a definite advantage over Prince.

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1972-73

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator Co.
<i>Too Small to Classify</i>			
8 Tallman	9	C.N. Saskatchewan Wheat Pool A & B	9
11 Scentgrass	8	C.N. Saskatchewan Wheat Pool A & B	8
12 Polwarth	5	C.N. National Grain	5
14 Brada	8	C.N. Saskatchewan Wheat Pool A & B	8
15 Lilac	5	C.N. Saskatchewan Wheat Pool	5
16 Iffley	8	C.N. Saskatchewan Wheat Pool A & B	8
<i>Hamlets</i>			
19 Redfield	8	C.P. Saskatchewan Wheat Pool	8
20 Hamlin	8	C.N. National Grain Saskatchewan Wheat Pool	4 4
22 Cavalier	10	C.N. Saskatchewan Wheat Pool A & B	10
23 Keatley	21	C.N. Saskatchewan Wheat Pool A, B & C	21
24 Bapaume	8	C.N. Saskatchewan Wheat Pool A & B	8
25 Robinhood	8	C.N. Saskatchewan Wheat Pool	8
26 Fairholme	10	C.N. Saskatchewan Wheat Pool A & B	10
27 Sandwith	10	C.N. Pioneer Grain	10
28 Mildred	10	C.N. Saskatchewan Wheat Pool	10
30 Prince	8	C.N. National Grain Saskatchewan Wheat Pool	4 4
31 Richard	19	C.N. Saskatchewan Wheat Pool A, B, C & D	19
32 Denholm	9	C.N. National Grain Saskatchewan Wheat Pool	4 5

(continued)

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1972-73 (continued)

Delivery Point	Number of Boxcars per Point	Elevator Companies		Number of Boxcars per Elevator Co.
33 Ruddell	10	C.N.	Saskatchewan Wheat Pool	10
34 Alticane	12	C.N.	Saskatchewan Wheat Pool	12
35 Glenbush	8	C.N.	Pioneer Grain Saskatchewan Wheat Pool	4 4
36 Fielding	12	C.N.	National Grain Saskatchewan Wheat Pool	5 7
37 Mont Nebo	7	C.N.	Saskatchewan Wheat Pool A & B	7
<i>Villages</i>				
38 Whitkow	19	C.P.	Saskatchewan Wheat Pool	19
39 Mullingar	7	C.N.	Saskatchewan Wheat Pool A & B	7
40 Holbein	16	C.N.	National Grain Saskatchewan Wheat Pool A & B	4 12
41 Parkside	12	C.N.	National Grain Saskatchewan Wheat Pool	4 8
43 Livelong	5	C.N.	Saskatchewan Wheat Pool A & B	5
44 Vawn	5	C.N.	Pioneer Grain Saskatchewan Wheat Pool	2 3
45 Krydor	19	C.N.	Saskatchewan Wheat Pool A, B, C & D	19
46 Medstead	5	C.N.	Saskatchewan Wheat Pool	5
47 Speers	19	C.N.	National Grain A & B Saskatchewan Wheat Pool	10 9
48 Mayfair	9	C.N.	Saskatchewan Wheat Pool	9
49 Maymont	13	C.N.	Saskatchewan Wheat Pool A & B	13
50 Mervin	8	C.N.	Saskatchewan Wheat Pool A & B	8

(continued)

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1972-73 (continued)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator Co.
51 Meota	13	C.N. Saskatchewan Wheat Pool A, B & C	13
52 Shell Lake	8	C.N. National Grain Saskatchewan Wheat Pool	4 4
53 Rabbit Lake	18	C.N. Pioneer Grain 1 & 2 Saskatchewan Wheat Pool	7 11
54 Marcelin	15	C.N. National Grain Saskatchewan Wheat Pool A, B & C	6 9
<i>Towns</i>			
55 Debden	21	C.N. Saskatchewan Wheat Pool A & B	21
56 Leoville	8	C.P. Saskatchewan Wheat Pool A & B	8
57 Borden	28	C.N. National Grain Saskatchewan Wheat Pool A & B United Grain Growers 1 & 2	5 13 10
58 Edam	14	C.N. National Grain Saskatchewan Wheat Pool	3 11
59 Radisson	10	C.N. Parrish & Heimbecker Saskatchewan Wheat Pool	6 4
60 Canwood	12	C.N. National Grain Saskatchewan Wheat Pool A, B & C	3 9
61 Glaslyn	12	C.N. Pioneer Grain 1 & 2 Saskatchewan Wheat Pool	8 4
62 Hafford	17	C.N. National Grain Pioneer Grain Saskatchewan Wheat Pool	5 7 5
63 Big River	3	C.N. Saskatchewan Wheat Pool	3
64 Turtleford	8	C.N. Pioneer Grain Saskatchewan Wheat Pool	4 4

(continued)

TABLE 3.12 MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1972-73 (concluded)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator Co.
65 Leask	20	C.N. National Grain Pioneer Grain Saskatchewan Wheat Pool A, B & C	4 4 12
<i>Greater Towns</i>			
66 Spiritwood	16	C.N. National Grain Pioneer Grain Saskatchewan Wheat Pool A & B	4 4 8
67 Shellbrook	21	C.N. Pioneer Grain Saskatchewan Wheat Pool A, B, C & D	7 14
68 Meadow Lake	28	C.P. Pioneer Grain Saskatchewan Wheat Pool, A, B, C, D, E, F & G	4 24
<i>Cities</i>			
69 North Battleford	26	C.N. National Grain Parrish & Heimbecker Saskatchewan Wheat Pool A & B	10 6 10
Study Area Total	656		

Source: Canadian Wheat Board, Winnipeg.

Block Loading System for Grain

A new system of issuing orders and allocating boxcars called the Canadian Wheat Board Block Loading System came into effect at the beginning of the 1969-70 crop year. The blocks consist of delivery points for grain that are situated in specified groups of contiguous railway subdivisions, the points of one railway company usually being kept separate from those of the other railway company. The original block configuration was revised prior to the 1971-72 crop year.

Communication between the Board and the elevator operators has improved, so the Board now knows the kinds, grades and quantities of grain at every delivery point in each block and, accordingly, issues shipping orders to the appropriate elevator companies. These firms then allocate boxcars to elevators in the block for loading the particular grains that the Board wants in forward positions.

Table 3.13 groups the delivery points of the study area within their respective loading blocks. The names of the railway subdivisions and the number of cars that can be loaded at one time at each point are also given.

TABLE 3.13 BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA, 1971-72

Shipping Block & Delivery Points	Railway Subdivision	Number of Boxcars Per Point
<i>Prince Albert East Block No. 23 (C.N.)</i>		
14 Brada	Langham	8
32 Denholm	Langham	9
33 Ruddell	Langham	10
36 Fielding	Langham	12
49 Maymont	Langham	13
57 Borden	Langham	28
59 Radisson	Langham	10
69 North Battleford	Battleford	26
<i>Prince Albert West Block No. 29 (C.N.)</i>		
8 Tallman	Blaine Lake	9
12 Polwarth	Big River	5
15 Lilac	Blaine Lake	5
22 Cavalier	Turtleford	10
23 Keatley	Robinhood	21
24 Bapaume	Amiens	8
25 Robinhood	Robinhood	8
26 Fairholme	Robinhood	10
28 Mildred	Amiens	10
30 Prince	Turtleford	8
31 Richard	Blaine Lake	19
34 Alticane	Robinhood	12
37 Mont Nebo	Amiens	7
39 Mullingar	Robinhood	7
40 Holbein	Blaine Lake	16
41 Parkside	Blaine Lake	12
43 Livelong	Robinhood	5
44 Vawn	Turtleford	5
45 Krydor	Blaine Lake	19
47 Speers	Blaine Lake	19
48 Mayfair	Robinhood	9
50 Mervin	Turtleford	8
51 Meota	Turtleford	13
52 Shell Lake	Amiens	8
53 Rabbit Lake	Robinhood	18
54 Marcelin	Blaine Lake	15
55 Debden	Big River	21
58 Edam	Turtleford	14
60 Canwood	Big River	12
61 Glaslyn	Robinhood	12
62 Hafford	Blaine Lake	17
63 Big River	Big River	3
64 Turtleford	Turtleford	8
65 Leask	Blaine Lake	20

(continued)

TABLE 3.13 BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA, 1971-72
(concluded)

Shipping Block & Delivery Points	Railway Subdivision	Number of Boxcars Per Point
66 Spiritwood	Amiens	16
67 Shellbrook	Blaine Lake	21
<i>Saskatoon Block No. 75 (C.P.)</i>		
56 Leoville	Meadow Lake	8
68 Meadow Lake	Meadow Lake	28
<i>Wilkie Block No. 76 (C.P.)</i>		
11 Scentgrass	Hatherleigh (C.N.)	8
16 Iffley	Hatherleigh (C.N.)	8
19 Redfield	Whitkow	8
20 Hamlin	Turtleford (C.N.)	8
27 Sandwith	Hatherleigh (C.N.)	.0
35 Glenbush	Robinhood (C.N.)	8
38 Whitkow	Whitkow	19
46 Medstead	Robinhood (C.N.)	5

Source: Canadian Wheat Board, Winnipeg.

Farm Trucks

Table 3.14 presents information on the number, size and age of farm trucks registered in the Shellbrook-Turtleford study area. Although it is difficult to translate gross vehicle weights into ton capacities, trucks in the 0-6,000 pound group represent 1/2-ton trucks and trucks at the upper end of the scale, about 21,000 pounds and over, represent 3-ton and 4-ton trucks.

A total of 7,288 farm trucks were matched with 4,805 farm operators in the study area.¹ Almost two thirds, 66.2 percent, were in the three smallest size groups. The average size group was 9,000 - 11,000 pounds. About 49 percent of the trucks were made prior to 1960-61 so they were over ten years old. The Canadian Transport Commission estimated the ownership of trucks to be as follows:

<u>No. of Farm Operators</u>	<u>No. of Trucks Owned</u>
2,893	1
1,554	2
291	3
52	4
15	5 or more

¹This accounted for 75.8 percent of the 6,339 permits issued in 1970-71, Table 3.2.

TABLE 3.14 ESTIMATED NUMBER OF FARM TRUCKS BY SIZE AND MODEL YEAR IN THE STUDY AREA, 1970^a

Size of Truck (Gross Vehicle Weight)	Model Year																			Total	Percent
	Up 1945	1946 to 1947	1948 1949	1950 to 1951	1952 to 1953	1954 to 1955	1956 1957	1958 to 1959	1959 to 1960	1960 to 1961	1961 to 1962	1962 to 1963	1963 1964	1964 to 1965	1965 to 1966	1966 to 1967	1967 to 1968	1968 to 1970			
- lbs. -																					
- number of trucks -																					
0 - 6,000	14	12	46	122	145	64	91	45	82	84	64	78	124	145	147	170	232	225	289	2,179	29.9
6,001 - 9,000	4	10	57	121	153	43	72	44	43	55	51	60	55	111	128	152	174	124	152	1,609	22.1
9,001 - 11,000	14	15	153	263	248	56	36	15	33	25	20	18	18	26	17	25	19	19	15	1,035	14.2
11,001 - 13,000	15	12	57	129	176	30	31	14	15	21	12	12	19	24	25	19	18	6	6	641	8.8
13,001 - 15,000	2	3	11	34	30	10	7	4	3	8	1	3	9	7	7	6	12	5	9	171	2.3
15,001 - 17,000	5	14	13	20	32	7	7	6	2	6	1	5	10	10	7	7	7	6	3	168	2.3
17,001 - 19,000	17	14	21	35	41	16	8	4	7	9	3	3	5	7	4	14	8	3	4	223	3.1
19,001 - 21,000	17	34	54	43	76	20	23	4	13	15	3	11	13	19	13	18	19	8	1	404	5.5
21,001 - 23,000	5	13	12	10	14	1	8		2	3		2	3	2	2	4	4	1	1	87	1.2
23,001 - 25,000	8	17	25	19	41	11	22	4	1	2	8	5	10	13	11	7	15	8	5	232	3.2
25,001 - 27,000	2	1	7	10	20	8	10	3	2	11	4	6	4	15	3	5	11	5	6	133	1.8
27,001 - 29,000	1	9	21	15	35	16	44	11	7	18	24	17	25	28	19	31	39	24	19	403	5.5
Over 29,000	1									1									1	3	0.1
Total	105	154	477	821	1,011	282	359	154	210	258	191	220	295	407	383	458	558	434	511	7,288	100.0
Percent	1.4	2.1	6.5	11.3	13.9	3.9	4.9	2.1	2.9	3.5	2.6	3.0	4.0	5.6	5.3	6.3	7.7	6.0	7.0	100.0	

^aThis matrix is a result of a clerical match between the 1970 Saskatchewan motor vehicle registrations and farm operators in the 1970-71 crop year. Names and addresses were matched to identify which trucks were owned by each operator. As there were difficulties in matching, the number of farm operators at a given delivery point may not equal total farm operators, but approximately 76 percent of all possible matches were completed with an estimated error of 10 percent. Two other points may also account for the difference: (1) it is a recognizable fact that some farmers arrange to have their grain hauled by a neighbor; (2) some farm trucks are for non-farm use only and as such are not registered.

Source: Canadian Transport Commission, Ottawa.

Farm to Elevator Hauling Distances

Tributary areas that supplied grain to delivery points for the 1969-70 crop year are shown in Figure 4.1. As recorded in individual Canadian Wheat Board permit books, each quarter section was plotted to produce a graphic portrayal of the relative sizes and shapes of hinterlands. Unimproved farmland is, of course, included by this method of presentation. Crown land, wasteland, bodies of water and farmland that is tributary to delivery points outside the study area are excluded.

Table 3.15 shows the distances that grain was hauled from farms to elevators in 1969-70. In a sense, the average hauling distance also measures the geographic size of a hinterland as additional acres generally increase the hauling distance. The data was derived from the hinterland map for 1969-70, Figure 4.1, by manually measuring the grid distance between the delivery point and the midpoint of each section block. The delivery point was always taken to be located at one corner of a section, resulting in the minimum distance being 1.0 mile and all other distances being 1.0 plus 1.0, 2.0 or 3.0 miles, etc., to the furthest boundary of the hinterland. Where a natural barrier such as a river bisects the study area, an allowance is made for the extra distance producers must haul via available roads.

The average distance of each quarter section from its delivery point was calculated as follows: the distance of each section, as derived above, was weighted or multiplied by the relevant¹ number of quarter sections within that section, the products of these calculations being accumulated and their sum divided by the total number of quarter sections in the hinterland. One might say that the result is the average distance each section is from the delivery point weighted by the number of relevant quarter sections.

As an estimate of farm to elevator hauling distances, this method may be faulted for not taking into account either the actual locations of on-farm facilities for grain storage or the existing network of roads. Such criticism may not be too serious, however, since grain is usually hauled from the field to the farm storage, and taken from there to the country elevator at a later date; therefore, the hauling actually originates from each quarter section. It is difficult to estimate the magnitude of the error introduced by ignoring roads, but the error will be greater for a hinterland with a few roads than for a hinterland with adequate roads. To the extent that error is introduced by ignoring roads, the method used underestimates hauling distances.

¹A "relevant" quarter section was both recorded in some farmer's delivery permit book and contained in the hinterland of the delivery point in question.

The average hauling distance in the study area in 1969-70 was 9.32 miles. The largest maximum distance was 57 miles at Meadow Lake and the smallest maximum distance was 6 miles at Ordale.

Meadow Lake had the longest average hauling distance, 20.63 miles; while Ordale had the shortest average hauling distance, 3.03 miles.

TABLE 3.15 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, 1969-70

Delivery Point	1969-70 ^a	
	Maximum	Average
	- miles -	
<i>Too Small to Classify</i>		
1 Hartwell		Closed
2 Cameo		Closed
3 Bournemouth	11	4.34
4 Dulwich		Closed
5 Cleeves		Closed
6 Ormeaux		Closed
7 Ordale	6	3.03
8 Tallman	15	5.75
9 Kilwinning		Closed
10 Redberry		Storage only
11 Scentgrass	24	7.05
12 Polwarth	38	4.75
13 Cater		Storage only
14 Brada	32	5.77
15 Lilac	18	5.32
16 Iffley	26	5.50
17 Ranger	13	5.63
<i>Hamlets</i>		
18 Hatherleigh	15	4.18
19 Redfield	18	4.83
20 Hamlin	50	7.87
21 Crutwell		Storage only
22 Cavalier	17	6.73
23 Keatley	30	5.78
24 Bapaume	21	8.13
25 Robinhood	18	5.46
26 Fairholme	20	5.88
27 Sandwith	11	4.57
28 Mildred	18	6.03
29 Belbutte		Storage only
30 Prince	25	8.32
31 Richard	35	8.23
32 Denholm	26	6.70
33 Ruddell	10	3.63
34 Alticane	18	5.88
35 Glenbush	17	4.51
36 Fielding	12	4.51
37 Mont Nebo	18	4.59
<i>Villages</i>		
38 Whitkow	12	5.41
39 Mullingar	20	6.67
40 Holbein	38	14.41

See footnotes at end of table

(continued)

TABLE 3.15 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, 1969-70
(concluded)

Delivery Point	1969-70 ^a	
	Maximum	Average
- miles -		
41 Parkside	24	5.58
42 Makwa	25	7.09
43 Livelong	20	8.53
44 Vawn	20	6.56
45 Krydor	19	7.35
46 Medstead	17	7.11
47 Speers	24	5.90
48 Mayfair	16	6.46
49 Maymont	39	5.94
50 Mervin	18	9.32
51 Meota	21	8.17
52 Shell Lake	18	6.91
53 Rabbit Lake	31	7.11
54 Marcelin	17	7.56
<i>Towns</i>		
55 Debden	24	8.71
56 Leoville	30	7.96
57 Borden	25	10.45
58 Edam	23	8.27
59 Radisson	17	6.68
60 Canwood	33	10.28
61 Glaslyn	18	7.71
62 Hafford	30	10.53
63 Big River	23	9.07
64 Turtleford	30	7.98
65 Leask	29	10.14
<i>Greater Towns</i>		
66 Spiritwood	23	9.05
67 Shellbrook	37	11.78
68 Meadow Lake	57	20.63
<i>Cities</i>		
69 North Battleford	40	14.32
Total Study Area	57	9.47

^aAs the minimum distance in all cases was assumed to be 1.0 mile, the range in distances for each hinterland is the maximum minus 1.0 mile.

PART IV

A SUGGESTED ALTERNATIVE GRAIN COLLECTION SYSTEM

Community characteristics, grain production characteristics, and grain marketing and handling characteristics of the study area have been covered in the first three parts of this report. Part IV endeavors to show what changes may take place if some delivery points are closed. The proposed alternative system has no official status. It is neither a set of recommendations nor a set of final adjustments that will in fact occur. The authors have scanned the delivery points and selected for closure the ones that seem least likely to survive when judged by the traffic density of the rail lines serving them, by the number of delivery permits issued for them, and by the distance from them to other points that will probably remain open. Some consideration has been given to the wishes of the railway and elevator companies. Applications that have been filed with the Canadian Transport Commission for permission to abandon lines were used to gauge what the railway companies wanted. Records of the volume of grain receipts put through delivery points each year were considered to be evidence of what the elevator companies wanted. Figure 4.2 shows the hinterlands of delivery points for grain that are assumed to stay open. This map is only intended to be an approximation of what the future may hold in store for farmers in the Shellbrook-Turtleford region.

For purposes of this study, 26 delivery points are assumed closed: 11 on the Robinhood railway subdivision, 2 on the Hatherleigh subdivision, 2 on the Whitkow subdivision and 11 scattered throughout the study region. Of the 37 points remaining open, 13 would not be affected by additional grain receipts upon rationalization (Table 4.1). One delivery point, Blaine Lake, which is located in another region¹, was affected by additional grain receipts. Data for Blaine Lake appears only in Part IV and in Figures 4.1 and 4.2.

Figure 4.2 was derived from 1969-70 hinterlands by diverting each quarter section from those points assumed to be closed to alternate points assumed to be open. Although an element of subjective judgment was involved, the following criteria served as guides in the selection of alternate delivery points: (1) shortest hauling distance; (2) road conditions; and (3) size of community and number of services at alternate points. These criteria are listed in order of importance, but in some instances the second criterion took precedence over the first one. Only minor importance was given to the third criterion.

¹For a more detailed examination of Blaine Lake, see The Rosthern Region of Saskatchewan by J.W. Channon, H.R. Fast and D.A. Neil, Economics Branch, Agriculture Canada. Pub. No. 72/6, October, 1972.

TABLE 4.1 STATUS OF DELIVERY POINTS AFTER DIVERSION, 1969-70^a

Points Assumed Closed	Points Remaining Open	
	Affected by Diversion	Unaffected by Diversion
3 Bournemouth	16 Iffley	24 Bapaume
7 Ordale	20 Hamlin	28 Mildred
8 Tallman	22 Cavalier	36 Fielding
10 Redberry ^b	27 Sandwith	40 Holbein
11 Scentgrass	30 Prince	44 Vawn
12 Polwarth	31 Richard	51 Meota
13 Cater ^b	32 Denholm	52 Shell Lake
14 Brada	33 Ruddell	54 Marcelin
15 Lilac	37 Mont Nebo	57 Borden
17 Ranger	41 Parkside	59 Radisson
18 Hatherleigh	45 Krydor	63 Big River
19 Redfield	46 Medstead	65 Leask
21 Crutwell ^b	47 Speers	67 Shellbrook
23 Keatley	49 Maymont	
25 Robinhood	50 Mervin	
26 Fairholme	55 Debden	
29 Belbutte ^b	56 Leoville	
34 Alticane	58 Edam	
35 Glenbush	60 Canwood	
38 Whitkow	62 Hafford	
39 Mullingar	64 Turtleford	
42 Makwa	* Blaine Lake	
43 Livelong	66 Spiritwood	
48 Mayfair	68 Meadow Lake	
53 Rabbit Lake	69 North Battleford	
61 Glaslyn		

*Blaine Lake, a greater town in the Rosthern Study Region, appears in Part IV of this study only to the extent that it is affected by diversion in the Shellbrook-Turtleford region.

^aHartwell, Cameo, Dulwich, Cleeves, Ormeaux and Kilwinning were closed prior to 1969-70.

^bClosed for storage in 1969-70.

Probable Diversion of Acreages and Bushels Conditional on Closing Certain Delivery Points

Table 4.2, the "loss" aspect of diversion, and Table 4.3, the "gain" aspect of diversion, show the probable changes in acreages and bushels that may occur should the specified points be closed. In Table 4.2, the percentage distribution figures were determined on the basis of the number of quarter sections diverted to each alternate delivery point. For example, 64.6 percent of all the quarter sections in the hinterland of Ordale were diverted to Mont Nebo, 20.2 percent went to Canwood, and 15.2 percent to Parkside. Of the 16,008 acres of farmland at Ordale in 1969-70, 10,341 acres were transferred to Mont Nebo with 3,234 acres being given to Canwood and 2,433 acres to Parkside. Altogether, 825,854 acres, 20.4 percent of slightly over 4,000,000 acres in the study area, were transferred from points assumed to be closed to points assumed to remain open.

Estimates of bushel diversion were also made on the basis of the percentage distribution of quarter sections. Of the 53,033 bushels of grain received at Ordale in 1969-70, it was assumed that 34,259 bushels, 64.6 percent, would be delivered to Mont Nebo with 10,713 bushels, 20.2 percent, going to Canwood and 8,061 bushels, 15.2 percent, going to Parkside. Because annual receipts fluctuate considerably, bushel diversions on the basis of the ten-year average of the crop years from 1960-61 to 1969-70 have been calculated in the same manner. If the specified delivery points in Table 4.2 had been closed in 1969-70, there would have been an estimated diversion of 3,335,381 bushels on the one-year basis compared with an estimated diversion of 3,547,417 bushels on the ten-year average basis. In this table, the specified delivery points are listed in an ascending order according to the average annual bushels assumed to be diverted from 1960-61 to 1969-70.

In Table 4.3, the acreage and bushel amounts transferred to each diversion point were taken from Table 4.2. The percent diverted data was derived from the figures on the same page for acres diverted 1969-70. As in the previous table, listed delivery points are arranged in an ascending order on the basis of the ten-year average receipts from 1960-61 to 1969-70. Maymont gained the least number of bushels, 4,224, while Medstead gained the most bushels, 521,253.

TABLE 4.2 DIVERSIONS (FROM-TO) OF ACREAGES AND BUSHELS CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70

From Closed Point To Diversion Point	Percent of Quarter Sections Diverted	Acres Diverted 1969-70	Bushels Diverted	
			1969-70	Ten-Year Average 1960-61 to 1969-70
From: 18 Hatherleigh To: 27 Sandwith 16 Iffley	2.5 97.5	496 19,351	1,089 42,470	1,221 47,602
<u>Total</u>	100.0	19,847	43,559	48,823
From: 3 Bournemouth To: 46 Medstead 27 Sandwith	2.5 97.5	327 12,767	1,567 61,125	1,284 50,080
<u>Total</u>	100.0	13,094	62,692	51,364
From: 7 Ordale To: 41 Parkside 60 Canwood 37 Mont Nebo	15.2 20.2 64.6	2,433 3,234 10,341	8,061 10,713 34,259	10,446 13,883 44,397
<u>Total</u>	100.0	16,008	53,033	68,726
From: 17 Ranger To: 56 Leoville	100.0	18,208	14,108	75,589
<u>Total</u>	100.0	18,208	14,108	75,589
From: 12 Polwarth To: 55 Debden 60 Canwood	44.6 55.4	5,959 7,402	41,388 51,411	37,587 46,688
<u>Total</u>	100.0	13,361	92,799	84,275
From: 42 Makwa To: 68 Meadow Lake	100.0	58,405	7,790	100,617
<u>Total</u>	100.0	58,405	7,790	100,617
From: 26 Fairholme To: 50 Mervin 46 Medstead 64 Turtleford	10.3 16.1 73.6	3,519 5,501 25,147	11,292 17,650 80,686	10,376 16,218 74,139
<u>Total</u>	100.0	34,167	109,628	100,733
From: 19 Redfield To: 27 Sandwith 47 Speers 16 Iffley 31 Richard	1.2 2.9 43.0 52.9	344 832 12,331 15,171	1,247 3,013 44,678 54,964	1,215 2,937 43,551 53,577
<u>Total</u>	100.0	28,678	103,902	101,280
From: 34 Alticane To: 45 Krydor 31 Richard 47 Speers 62 Hafford	3.5 6.4 39.8 50.3	1,007 1,841 11,448 14,468	3,726 6,813 42,370 53,548	4,628 8,462 52,623 66,507
<u>Total</u>	100.0	28,764	106,457	132,220

(continued)

TABLE 4.2 DIVERSIONS (FROM-TO) OF ACREAGES AND BUSHEL'S CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70 (continued)

From Closed Point To Diversion Point	Percent of Quarter Sections Diverted	Acres Diverted 1969-70	Bushels Diverted	
			1969-70	Ten-Year Average 1960-61 to 1969-70
From: 11 Scentgrass				
To: 22 Cavalier	7.3	2,085	9,591	9,763
20 Hamlin	8.9	2,542	11,693	11,903
30 Prince	27.9	7,968	36,657	37,314
16 Iffley	55.9	15,966	73,444	74,761
<u>Total</u>	100.0	28,561	131,385	133,741
From: 25 Robinhood				
To: 27 Sandwith	12.5	5,093	18,504	18,232
46 Medstead	87.5	35,655	129,530	127,627
<u>Total</u>	100.0	40,748	148,034	145,859
From: 39 Mullingar				
To: 62 Hafford	7.7	2,362	8,949	11,290
16 Iffley	13.8	4,233	16,039	20,235
47 Speers	15.5	4,754	18,015	22,727
66 Spiritwood	18.2	5,582	21,153	26,686
27 Sandwith	44.8	13,742	52,068	65,689
<u>Total</u>	100.0	30,673	116,224	146,627
From: 43 Livealong				
To: 50 Mervin	3.5	2,237	5,354	5,249
64 Turtleford	96.5	61,686	147,616	144,708
<u>Total</u>	100.0	63,923	152,970	149,957
From: 35 Glenbush				
To: 27 Sandwith	47.5	15,900	89,542	89,124
46 Medstead	52.5	17,574	98,968	98,506
<u>Total</u>	100.0	33,474	188,510	187,630
From: 14 Brada				
To: 47 Speers	0.6	160	987	1,193
31 Richard	1.2	319	1,975	2,387
16 Iffley	3.0	798	4,937	5,966
69 North Battleford	40.8	10,859	67,140	81,145
32 Denholm	54.4	14,478	89,521	108,193
<u>Total</u>	100.0	26,614	164,560	198,884
From: 15 Lilac				
To: 49 Maymont	2.1	674	4,159	4,224
33 Ruddell	26.9	8,632	53,280	54,105
31 Richard	34.2	10,975	67,738	68,788
32 Denholm	36.8	11,809	72,888	74,018
<u>Total</u>	100.0	32,090	198,065	201,135
From: 48 Mayfair				
To: 27 Sandwith	5.7	3,086	13,792	11,622
62 Hafford	17.9	9,693	43,312	36,497
16 Iffley	18.4	9,963	44,521	37,516
31 Richard	19.9	10,776	48,151	40,574
47 Speers	38.1	20,631	92,188	77,682
<u>Total</u>	100.0	54,149	241,964	203,891

(continued)

TABLE 4.2 DIVERSIONS (FROM-TO) OF ACREAGES AND BUSHEL'S CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70 (concluded)

From Closed Point To Diversion Point	Percent of Quarter Sections Diverted	Acres Diverted 1969-70	Bushels Diverted	
			1969-70	Ten-Year Average 1960-61 to 1969-70
From: 8 Tallman				
To: * Blaine Lake	46.6	11,235	57,874	100,666
45 Krydor	53.4	12,874	66,320	115,356
<u>Total</u>	100.0	24,109	124,194	216,022
From: 38 Whitkow				
To: 32 Denholm	2.3	782	2,940	5,427
27 Sandwith	2.4	816	3,069	5,663
20 Hamlin	15.5	5,271	19,819	36,575
31 Richard	23.0	7,821	29,409	54,272
16 Iffley	56.8	19,316	72,627	134,029
<u>Total</u>	100.0	34,006	127,864	235,966
From: 23 Keatley				
To: 45 Krydor	0.4	161	944	965
27 Sandwith	2.5	1,004	5,899	6,029
31 Richard	6.2	2,491	14,630	14,952
62 Hafford	32.9	13,217	136,865	139,878
47 Speers	58.0	23,301	77,636	79,344
<u>Total</u>	100.0	40,174	235,974	241,168
From: 53 Rabbit Lake				
To: 46 Medstead	0.8	679	4,142	2,800
47 Speers	0.8	679	4,142	2,800
16 Iffley	10.5	8,909	54,358	36,752
66 Spiritwood	12.7	10,776	65,747	44,453
27 Sandwith	75.2	63,807	389,307	263,217
<u>Total</u>	100.0	84,850	517,696	350,022
From: 61 Glaslyn				
To: 22 Cavalier	1.1	1,121	4,334	4,102
58 Edam	4.5	4,588	17,729	16,780
64 Turtleford	7.0	7,137	27,578	26,102
50 Mervin	13.7	13,967	53,974	51,086
46 Medstead	73.7	75,138	290,358	274,818
<u>Total</u>	100.0	101,951	393,973	372,888
Study Area Total		825,854	3,335,381	3,547,417

*See footnote Table 4.3.

TABLE 4.3 DIVERSIONS (TO-FROM) OF ACREAGES AND BUSHELS CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70

To Diversion Point From Closed Point	Percent Diverted	Acres Diverted 1969-70	Bushels Diverted	
			1969-70	Ten-Year Average 1960-61 to 1969-70
To: 49 Maymont				
From: 15 Lilac	100.0	674	4,159	4,224
<u>Total</u>	100.0	674	4,159	4,224
To: 41 Parkside				
From: 7 Ordale	100.0	2,433	8,061	10,446
<u>Total</u>	100.0	2,433	8,061	10,446
To: 22 Cavalier				
From: 61 Glaslyn	35.0	1,121	4,334	4,102
11 Scentgrass	65.0	2,085	9,591	9,763
<u>Total</u>	100.0	3,206	13,925	13,865
To: 58 Edam				
From: 61 Glaslyn	100.0	4,588	17,729	16,780
<u>Total</u>	100.0	4,588	17,729	16,780
To: 30 Prince				
From: 11 Scentgrass	100.0	7,968	36,657	37,314
<u>Total</u>	100.0	7,968	36,657	37,314
To: 55 Debden				
From: 12 Polwarth	100.0	5,959	41,388	37,587
<u>Total</u>	100.0	5,959	41,388	37,587
To: 37 Mont Nebo				
From: 7 Ordale	100.0	10,341	34,259	44,397
<u>Total</u>	100.0	10,341	34,259	44,397
To: 20 Hamlin				
From: 11 Scentgrass	32.5	2,542	11,693	11,903
38 Whitkow	67.5	5,271	19,819	36,575
<u>Total</u>	100.0	7,813	31,512	48,478
To: 33 Ruddell				
From: 15 Lilac	100.0	8,632	53,280	54,105
<u>Total</u>	100.0	8,632	53,280	54,105
To: 60 Canwood				
From: 7 Ordale	30.4	3,234	10,713	13,883
12 Polwarth	69.6	7,402	51,411	46,688
<u>Total</u>	100.0	10,636	62,124	60,571
To: 50 Mervin				
From: 43 Livelong	11.4	2,237	5,354	5,249
26 Fairholme	17.8	3,519	11,292	10,376
61 Glaslyn	70.8	13,967	53,974	51,086
<u>Total</u>	100.0	19,723	70,620	66,711

(continued)

TABLE 4.3 DIVERSIONS (TO-FROM) OF ACREAGES AND BUSHEL'S CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70 (continued)

To Diversion Point From Closed Point	Percent Diverted	Acres Diverted 1969-70	Bushels Diverted	
			1969-70	Ten-Year Average 1960-61 to 1969-70
To: 66 Spiritwood				
From: 39 Mullingar	34.1	5,582	21,153	26,686
53 Rabbit Lake	65.9	10,776	65,747	44,453
<u>Total</u>	100.0	16,358	86,900	71,139
To: 56 Leoville				
From: 17 Ranger	100.0	18,208	14,108	75,589
<u>Total</u>	100.0	18,208	14,108	75,589
To: 69 North Battleford				
From: 14 Brada	100.0	10,859	67,140	81,145
<u>Total</u>	100.0	10,859	67,140	81,145
To: 68 Meadow Lake				
From: 42 Makwa	100.0	58,405	7,790	100,617
<u>Total</u>	100.0	58,405	7,790	100,617
To: * Blaine Lake				
From: 8 Tallman	100.0	11,235	57,874	100,666
<u>Total</u>	100.0	11,235	57,874	100,666
To: 45 Krydor				
From: 23 Keatley	1.1	161	944	965
34 Alticane	7.2	1,007	3,726	4,628
8 Tallman	91.7	12,874	66,320	115,356
<u>Total</u>	100.0	14,042	70,990	120,949
To: 32 Denholm				
From: 38 Whitkow	2.9	782	2,940	5,427
15 Lilac	43.6	11,809	72,888	74,018
14 Brada	53.5	14,478	89,521	108,193
<u>Total</u>	100.0	27,069	165,349	187,638
To: 62 Hafford				
From: 39 Mullingar	5.9	2,362	8,949	11,290
48 Mayfair	24.4	9,693	43,312	36,497
34 Alticane	36.4	14,468	58,548	66,507
23 Keatley	33.3	13,217	77,636	79,344
<u>Total</u>	100.0	39,740	183,445	193,638
To: 31 Richard				
From: 14 Brada	0.7	314	1,975	2,387
34 Alticane	3.7	1,841	6,813	8,462
23 Keatley	5.1	2,491	14,630	14,952
48 Mayfair	21.8	10,776	48,151	40,574
19 Redfield	30.7	15,171	54,964	53,577
38 Whitkow	15.8	7,821	29,409	54,272
15 Lilac	22.2	10,975	67,738	68,788
<u>Total</u>	100.0	49,394	223,680	243,012

See footnotes at end of table

(continued)

TABLE 4.3 DIVERSIONS (TO-FROM) OF ACREAGES AND BUSHELS CONDITIONAL ON THE CLOSING OF SPECIFIED DELIVERY POINTS, BASIS 1969-70 (concluded)

To Diversion Point From Closed Point	Percent Diverted	Acres Diverted 1969-70	Bushels Diverted	
			1969-70	Ten-Year Average 1960-61 to 1969-70
To: 64 Turtleford				
From: 61 Glaslyn	7.6	7,137	25,578	26,102
26 Fairholme	26.8	25,147	80,686	74,139
43 Livelong	65.6	61,686	147,616	144,708
<u>Total</u>	100.0	93,970	255,880	244,949
To: 47 Speers				
From: 14 Brada	0.3	160	980	1,193
53 Rabbit Lake	1.1	679	4,142	2,800
19 Redfield	1.3	832	3,013	2,937
39 Mullingar	7.7	4,754	18,015	22,727
34 Alticane	18.5	11,448	42,370	52,623
48 Mayfair	33.4	20,631	92,188	77,682
23 Keatley	37.7	23,301	136,865	139,878
<u>Total</u>	100.0	61,805	297,580	299,840
To: 16 Iffley				
From: 14 Brada	0.9	798	4,937	5,966
39 Mullingar	4.6	4,233	16,039	20,235
53 Rabbit Lake	9.8	8,909	54,358	36,752
48 Mayfair	11.0	9,963	44,521	37,516
19 Redfield	13.6	12,331	44,678	43,551
18 Hatherleigh	21.3	19,351	42,470	47,602
11 Scentgrass	17.6	15,966	73,444	74,761
38 Whitkow	21.2	19,316	72,627	134,029
<u>Total</u>	100.0	90,867	353,074	400,412
To: 27 Sandwith				
From: 19 Redfield	0.3	344	1,247	1,215
18 Hatherleigh	0.4	496	1,089	1,221
38 Whitkow	0.7	816	3,069	5,663
23 Keatley	0.9	1,004	5,899	6,029
48 Mayfair	2.6	3,086	13,792	11,622
25 Robinhood	4.4	5,093	18,504	18,232
3 Bournemouth	10.9	12,767	61,125	50,080
39 Mullingar	11.7	13,742	52,068	65,689
35 Glenbush	13.6	15,900	89,542	89,124
53 Rabbit Lake	54.5	63,807	389,307	263,217
<u>Total</u>	100.0	117,055	635,642	512,092
To: 46 Medstead				
From: 3 Bournemouth	0.2	327	1,567	1,284
53 Rabbit Lake	0.5	679	4,142	2,800
26 Fairholme	4.1	5,501	17,650	16,218
35 Glenbush	13.1	17,574	98,968	98,506
25 Robinhood	26.4	35,655	129,530	127,627
61 Glaslyn	55.7	75,138	290,358	274,818
<u>Total</u>	100.0	134,874	542,215	521,253
Study Area Total		825,854	3,335,381	3,547,417

*In addition to the acreage and bushelage diverted to it from delivery points in the Shellbrook-Turtleford Study Area, Blaine Lake gained an acreage of 15,148, 1969-70 bushelage of 97,537 and ten-year average bushelage of 119,074 from four points in the Rosthern study area which were assumed to be closed.

Size of Hinterlands Before and After Diversion

Table 4.4 shows expected acreage increases in the hinterlands of those points assumed to remain open. Maymont has the least gain in both absolute and relative terms, 674 acres or 1.3 percent. Medstead makes the greatest absolute gain, 134,874 acres, with Sandwith having the greatest relative increase, 469.9 percent. Acreage diversion increases the average size of all 25 diversion points by 36.3 percent.

TABLE 4.4 SIZE OF HINTERLANDS BEFORE AND AFTER DIVERSION, BASIS 1969-70

Diversion Point	Before Diversion	Acreage Increase	After Diversion	Percent Increase
	Original Size 1969-70		Enlarged Size	
	- acres -		- acres -	
49 Maymont	53,270	674	53,944	1.3
41 Parkside	58,567	2,433	61,000	4.2
22 Cavalier	48,965	3,206	52,171	6.6
58 Edam	116,594	4,588	121,182	3.9
30 Prince	65,196	7,968	73,164	12.2
55 Debden	130,035	5,959	135,994	4.6
37 Mont Nebo	31,676	10,341	42,017	32.7
20 Hamlin	54,635	7,813	62,448	14.3
33 Ruddell	23,266	8,632	31,898	37.1
60 Canwood	150,386	10,636	161,022	7.1
50 Mervin	64,947	19,723	84,670	30.4
66 Spiritwood	144,411	16,358	160,769	11.3
56 Leoville	82,639	18,208	100,847	22.0
69 North Battleford	96,048	10,859	106,907	11.3
68 Meadow Lake	408,692	58,405	467,097	14.3
* Blaine Lake	126,732	11,235	137,967	8.9
45 Krydor	74,240	14,042	88,282	18.9
32 Denholm	61,398	27,069	88,467	44.1
62 Hafford	142,685	39,740	182,425	27.9
31 Richard	58,228	49,394	107,622	84.8
64 Turtleford	107,834	93,970	201,804	87.1
47 Speers	53,784	61,805	115,589	114.9
16 Iffley	20,833	90,867	111,700	436.2
27 Sandwith	24,909	117,055	141,964	469.9
46 Medstead	77,190	134,874	212,064	174.7
Study Area Total	2,277,160	825,854	3,103,014 ^a	36.3

*Blaine Lake gained a total of 26,383 acres or 20.8 percent: 11,235 acres or 8.9 percent from the Shellbrook-Turtleford region and 15,148 acres or 11.9 percent from the Rosthern region.

^aThis total accounts only for points affected by diversion in the Shellbrook-Turtleford Study Region with the addition of the greater town of Blaine Lake which is located in the Rosthern Study Region.

Throughput Ratios Before and After Diversion

Rationalization of the present system of grain collection assumes the closure of 26 points in the Shellbrook-Turtleford area and the consequent reduction of elevator capacity by 2,157,200 bushels or 20 percent. Provided that no further storage is built, the throughput ratios expected to result from diversion are given in Table 4.5.¹

Twenty-five delivery points are deemed to be affected by rationalization. For the period from 1960-61 to 1969-70, 1 of these points had a throughput ratio of less than 1.0, 15 points had ratios from 1.0 to 1.9, 7 points were from 2.0 to 2.9 and 2 points had ratios of 3.0 or more. After diversion, it is estimated that ratios will be below 2.0 at only 8 points, from 2.0 to 2.9 at another 8 points, and 3.0 or more at the remaining 9 points. On the basis of 1969-70, the highest ratio, 13.0, occurs at Sandwith and represents an increase of 10 times the ratio before diversion. Based on the ten-year average, rationalization should raise the throughput ratio for the study area from 1.7 to 2.2.

Given their present elevator facilities, Iffley and Sandwith would likely experience some difficulty in handling the additional throughput after diversion. For example, to attain a throughput ratio of 10.5 at Sandwith, where the present capacity is 56,000 bushels, that point would need an annual turnover of 588,000 bushels or a total of 294 boxcars. This would require the local grain elevator to load an average of about 6 boxcars each week of the year. Facilities at Medstead, however, would handle the additional throughput more readily as a new elevator, erected there in 1970, increased the storage capacity from 69,000 bushels to 112,000 bushels (Table 3.5). After diversion, based on a 1969-70 capacity of 69,000 bushels, the throughput ratio was 10.7, but based on the new capacity of 112,000 bushels, the throughput ratio is only 6.6.

¹Throughput ratios for all delivery points before diversion are shown in Table 3.7.

TABLE 4.5 THROUGHPUT RATIOS BY DELIVERY POINT BEFORE AND AFTER DIVERSION,
BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE

Diversion Point	Before Diversion		After Diversion	
	Actual 1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Open Points Unaffected by Diversion</i>				
24 Bapaume	3.7	2.1	3.7	2.1
28 Mildred	1.8	1.7	1.8	1.7
36 Fielding	2.3	2.2	2.3	2.2
40 Holbein	2.5	1.8	2.5	1.8
44 Vawn	1.6	1.6	1.6	1.6
51 Meota	1.0	1.5	1.0	1.5
52 Shell Lake	2.3	2.1	2.3	2.1
54 Marcelin	1.2	1.2	1.2	1.2
57 Borden	1.6	1.5	1.6	1.5
59 Radisson	1.9	1.8	1.9	1.8
63 Big River	2.1	2.4	2.1	2.4
65 Leask	1.8	1.6	1.8	1.6
67 Shellbrook	1.4	1.3	1.4	1.3
<i>Open Points Affected by Diversion</i>				
49 Maymont	1.8	2.0	1.9	2.0
41 Parkside	1.6	1.5	1.6	1.5
22 Cavalier	1.8	1.8	1.9	1.9
58 Edam	2.8	2.6	2.9	2.7
30 Prince	2.3	2.2	2.6	2.4
55 Debden	2.0	1.6	2.2	1.8
37 Mont Nebo	0.9	0.9	1.1	1.2
20 Hamlin	2.9	2.7	3.1	3.0
33 Ruddell	1.6	1.6	2.3	2.4
60 Canwood	2.1	1.7	2.3	1.9
50 Mervin	3.0	3.0	3.7	3.7
66 Spiritwood	2.0	1.5	2.3	1.7
56 Leoville	2.7	2.6	2.8	3.2
69 North Battleford	2.0	1.7	2.3	2.0
68 Meadow Lake	1.9	1.7	1.9	1.8
* Blaine Lake	1.7	1.7	1.8	1.9
45 Krydor	1.7	1.9	2.1	2.5
32 Denholm	2.2	2.1	3.2	3.2
62 Hafford	2.7	2.3	3.5	3.2
31 Richard	1.8	1.9	2.9	3.0
64 Turtleford	2.1	1.7	3.1	2.7
47 Speers	1.4	1.3	2.6	2.5

See footnotes at end of table

(continued)

TABLE 4.5 THROUGHPUT RATIOS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE

Diversion Point	Before Diversion		After Diversion	
	Actual 1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
16 Iffley	1.0	1.4	6.4	7.5
27 Sandwith	1.6	1.3	13.0	10.5
46 Medstead	3.8	3.2	11.6	10.7
Total Study Area	1.8 ^a	1.7 ^a	2.3 ^b	2.2 ^b

*Ratios shown for Blaine Lake are only for bushelages diverted from the Shellbrook-Turtleford Region. The diversion of bushelages from both the Shellbrook-Turtleford Region and the Rosthern Region would have the following effect on the throughput ratio at Blaine Lake:

- (1) A 1969-70 throughput ratio after diversion of 1.9.
- (2) A ten-year average throughput ratio after diversion of 2.2.

^aAverage throughput ratio of all points open from Table 3.7. Blaine Lake is not included.

^bBlaine Lake is included based on bushelages diverted from the Shellbrook-Turtleford Region only.

Farm to Elevator Hauling Distances Before and After Diversion

Table 4.6 presents a comparison of maximum and average hauling distances before and after diversion both for points assumed to be closed and for points assumed to remain open. The changes in maximum and average mileages due to diversion are also shown.

For the study area as a whole, diversion increased the average farm to elevator hauling distance from 9.32 to 11.44 miles, a difference of 2.12 miles. For those points assumed closed, diversion increased average hauling distance from 6.32 to 15.07 miles, a difference of 8.75 miles. Before diversion the shortest average hauling distance was 3.03 miles at Ordale and the longest average hauling distance was 20.63 at Meadow Lake. For points remaining open after diversion, Fielding had the shortest average hauling distance, 4.51 miles, and Meadow Lake had the longest average hauling distance, 21.96 miles.

Hauling distances increased considerably for nearly all points assumed to be closed.¹ The greatest jump occurred at Makwa where the average mileage rose from 7.09 miles to 31.37 miles, an increase of 24.28 miles. The maximum hauling distance for the points assumed to be closed increased from 38 miles to 52 miles.

¹The reason for the slight decrease in the average hauling distance at Scentgrass is that several quarter sections in its hinterland north of Jackfish Lake were diverted to Cavalier when Scentgrass was closed so the original hauling distance to the latter point was accordingly shortened.

The fact that average hauling distances decreased at several of the points remaining open can be explained by the location of the acreages added in relation to the shape of the original hinterlands. Since average hauling distance is an average weighted by the number of quarter sections (see commentary for Table 3.15), adding quarter sections that are closer to a delivery point than some of its original acreage results in the average being pulled downwards.

TABLE 4.6 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70

Delivery Point	Before Diversion 1969-70		After Diversion Basis 1969-70		Change	
	Maximum	Average	Maximum	Average	Maximum	Average
- miles -						
<i>Points Assumed Closed</i>						
18 Hatherleigh	15	4.18	18	8.70	+ 3	+ 4.52
3 Bournemouth	11	4.34	17	9.70	+ 6	+ 5.36
7 Ordale	6	3.03	10	7.53	+ 4	+ 4.50
17 Ranger	13	5.63	18	10.94	+ 5	+ 5.31
12 Polwarth	38	4.75	12	9.05	-26	+ 4.30
42 Makwa	25	7.09	52	31.37	+27	+24.28
26 Fairholme	20	5.88	28	19.02	+ 8	+13.14
19 Redfield	18	4.83	23	16.48	+ 5	+11.65
34 Alticane	18	5.88	27	17.42	+ 9	+11.54
11 Scentgrass	24	7.05	16	6.24	- 8	- 0.81
25 Robinhood	18	5.46	23	8.64	+ 5	+ 3.18
39 Mullingar	20	6.67	29	21.75	+ 9	+15.08
43 Livelong	20	8.53	34	18.76	+14	+10.23
35 Glenbush	17	4.51	17	7.31	0	+ 2.80
14 Brada	32	5.77	21	8.20	-11	+ 2.43
15 Lilac	18	5.32	19	8.84	+ 1	+ 3.52
48 Mayfair	16	6.46	27	19.61	+11	+13.15
8 Tallman	15	5.75	16	7.52	+ 1	+ 1.77
38 Whitkow	12	5.41	22	13.44	+10	+ 8.03
23 Keatley	30	5.78	20	10.98	-10	+ 5.20
53 Rabbit Lake	31	7.11	24	13.29	- 7	+ 6.18
61 Glaslyn	18	7.71	33	18.05	+15	+10.34
Sub-Total	38	6.32	52	15.07	+14	+ 8.75
<i>Points Remaining Open</i>						
24 Bapaume	21	8.13	21	8.13	0	0.0
28 Mildred	18	6.03	18	6.03	0	0.0
36 Fielding	12	4.51	12	4.51	0	0.0
40 Holbein	38	13.54	38	13.54	0	0.0
44 Vawn	20	6.56	20	6.56	0	0.0
51 Meota	21	8.17	21	8.17	0	0.0
52 Shell Lake	18	6.91	18	6.91	0	0.0
54 Marcelin	17	7.56	17	7.56	0	0.0
57 Borden	25	10.45	25	10.45	0	0.0
59 Radisson	17	6.68	17	6.68	0	0.0
63 Big River	23	9.07	23	9.07	0	0.0
65 Leask	29	10.14	29	10.14	0	0.0
67 Shellbrook	37	9.87	37	9.87	0	0.0
49 Maymont	39	5.95	39	5.94	0	- 0.01

(continued)

TABLE 4.6 FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70 (concluded)

Delivery Point.	Before Diversion 1969-70		After Diversion Basis 1969-70		Change	
	Maximum	Average	Maximum	Average	Maximum	Average
- miles -						
41 Parkside	24	5.58	24	5.73	0	+ 0.15
22 Cavalier	17	6.73	17	7.22	0	+ 0.49
58 Edam	23	8.27	23	8.59	0	+ 0.32
30 Prince	25	8.32	25	8.03	0	- 0.29
55 Debden	24	8.71	24	8.74	0	+ 0.03
37 Mont Nebo	18	4.59	18	5.33	0	+ 0.74
20 Hamlin	50	7.87	50	8.44	0	+ 0.57
33 Ruddell	10	3.63	10	4.20	0	+ 0.57
60 Canwood	33	10.28	33	10.13	0	- 0.15
50 Mervin	18	9.32	20	10.71	+ 2	+ 1.39
66 Spiritwood	23	9.05	29	9.96	+ 6	+ 0.91
56 Leoville	30	7.96	30	8.39	0	+ 0.43
69 North Battleford	40	14.32	40	13.71	0	- 0.61
68 Meadow Lake	57	20.63	57	21.96	0	+ 1.33
* Blaine Lake	26	9.28	26	9.13	0	- 0.15
45 Krydor	19	7.35	20	7.50	+ 1	+ 0.15
32 Denholm	26	6.70	26	7.34	0	+ 0.64
62 Hafford	30	10.53	30	11.98	0	+ 1.45
31 Richard	36	8.23	36	11.35	0	+ 3.12
64 Turtleford	30	7.98	34	13.49	+ 4	+ 5.51
47 Speers	24	5.90	28	11.40	+ 5	+ 5.50
16 Iffley	26	5.50	26	10.75	0	+ 5.25
27 Sandwith	11	4.57	25	11.37	+14	+ 6.80
46 Medstead	17	7.11	34	11.51	+17	+ 4.40
Total Study Area	57	9.32 ^a	57	11.44 ^b	0	+ 2.12

*Figures for Blaine Lake shown here do not include mileage that town gained from the Rosthern Region. With diversions from both the Shellbrook-Turtleford Region and the Rosthern Region, the average haul at Blaine Lake became 9.84 miles, an increase of 0.56 miles.

^aBlaine Lake is not included.

^bBlaine Lake is included based on mileage computed from the Shellbrook-Turtleford Region only.

Number of Permit Holders Before and After Diversion

If the alternative grain collection system assumed in this report materializes, there will be adjustments in the number of permit holders at the delivery points affected. Based on the number of permits issued in 1969-70, estimates have been made of the probable number of permits at points remaining open after diversion (Table 4.7). These estimates were derived from the percentage distribution values of Table 4.2 in the same manner as estimates for acreage and bushelage diversion. It is supposed that no reduction in the number of producers will result from rationalization.

A total of 1,343 permit holders, 20.2 percent of the 6,654 permit holders in the study area, Blaine Lake excluded, would find it necessary to choose an alternate delivery point. Medstead is expected to make the greatest gain with the number of permit holders rising from 117 before diversion to 320 after diversion, a gain of 203. Diversion would increase the number of permit holders by over five times the previous number both at Iffley, 36 to 184, and at Sandwith, 41 to 237.

TABLE 4.7 NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70

Delivery Point	Number of Permit Holders	
	Before Diversion	After Diversion
<i>Points Assumed Closed</i>		
18 Hatherleigh	34	0
3 Bournemouth	24	0
7 Ordale	32	0
17 Ranger	28	0
12 Polwarth	29	0
42 Makwa	105	0
26 Fairholme	50	0
19 Redfield	37	0
34 Alticane	54	0
11 Scentgrass	46	0
25 Robinhood	54	0
39 Mullingar	49	0
43 Livelong	84	0
35 Glenbush	48	0
14 Brada	37	0
15 Lilac	52	0
48 Mayfair	89	0
8 Tallman	51	0
38 Whitkow	61	0
23 Keatley	68	0
53 Rabbit Lake	147	0
61 Glaslyn	164	0
<i>Points Remaining Open</i>		
24 Bapaume	81	81
28 Mildred	40	40
36 Fielding	53	53
40 Holbein	192	192
44 Vawn	86	86
51 Meota	36	36
52 Shell Lake	175	175
54 Marcelin	137	137
57 Borden	188	188
59 Radisson	133	133
63 Big River	110	110
65 Leask	237	237
67 Shellbrook	260	260
49 Maymont	87	88
41 Parkside	109	114
22 Cavalier	66	71

(continued)

TABLE 4.7 NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70 (concluded)

Delivery Point	Number of Permit Holders	
	Before Diversion	After Diversion
58 Edam	144	151
30 Prince	99	112
55 Debden	203	216
37 Mont Nebo	40	61
20 Hamlin	87	101
33 Ruddell	35	49
60 Canwood	276	298
50 Mervin	79	109
66 Spiritwood	233	261
56 Leoville	131	159
69 North Battleford	148	163
68 Meadow Lake	748	853
* Blaine Lake	270	294
45 Krydor	185	215
32 Denholm	91	130
62 Hafford	304	373
31 Richard	93	170
64 Turtleford	142	272
47 Speers	89	195
16 Iffley	36	184
27 Sandwith	41	237
46 Medstead	117	320
Total Study Area	6,924 ^a	6,924 ^a

*Blaine Lake received an additional 32 permit holders from points in the Rosthern Study area, making a total of 326 permit holders for that delivery point after diversion.

^aBlaine Lake included.

PART V

REGULATION OF THE GRAIN INDUSTRY

There is an inherent unfairness in a situation where a large number of sellers face a few buyers. In Western Canada the existence of such a situation has led to the very high degree of regulation which characterizes the grain marketing industry today: grain elevators are regulated by the Canadian Grain Commission; grain marketers including the producers are regulated by the Canadian Wheat Board; and grain carriers--railways, truckers and lake vessel operators--are regulated by the Canadian Transport Commission as well as by the Canadian Grain Commission and the Canadian Wheat Board.

The following outline of the activity of the above regulatory bodies is not intended to be exhaustive by any means; however, the most important regulations applying to producers, elevator operators and railways are covered. Because these regulations significantly influence the welfare of prairie farms and communities, they are complementary to the Prairie Regional Studies in Economic Geography.

Canada Grain Act, Revised Statutes of Canada 1970 Ch. G-16

The Canadian Grain Commission superseded the Board of Grain Commissioners for Canada on April 1, 1971, by virtue of an amended Canada Grain Act passed by the federal government in 1970. The definition of an elevator is one of several important changes in the Act (Section 2). For licensing purposes it is no longer required that an elevator be situated on a railway right-of-way. All premises which receive, weigh, elevate, store and discharge bulk grain into a transport conveyance and which meet certain construction standards specified by the Commission may be licensed to handle western grain.

For regulatory purposes the once familiar term, "country elevator", has been changed to "primary elevator" and is now defined as "an elevator the principal use of which is the receiving of grain directly from producers".

All costs of the Commission are borne by the federal treasury. The commissioners and their staff are public servants.

In the interests of the producers, the Commission establishes and maintains standards of quality for Canadian grain. Any grade or dockage dispute between producer and buyer is settled by sending a small sample of the grain to the Commission. Elevator operators must give farmers every opportunity to verify the weights of their grain.

The Commission may consent to the mixing of different grades of grain in terminal and transfer elevators. Without this consent no mixing is permitted. The Commission periodically checks the inventory of grain in all elevators.

Only a public carrier may transport grain described by an official grade name across a provincial boundary. Only a public carrier may transport grain from Western Canada to Eastern Canada or out of Canada. Public carriers may not deliver grain to primary elevators without the consent of the Commission.

Grain producers who qualify to ship a complete carload of grain to a terminal or a transfer elevator may have a rail car allocated to them for this purpose by the Commission. Where it is in the public interest so to do, the federal cabinet may order a railway company to spot cars for transporting grain at any point where service is provided. In such cases the grain producer has the right to select the elevator of his choice or to load directly into the rail car.

The car order book is no longer used as the legal instrument to ensure equity in rail car supply.

To provide for the orderly movement of grain, the Commission may issue regulations governing the activities of all licensed elevators.

The Commission may set maximum freight rates for the carriage of Canadian grain by lake vessel between points in Canada. This authority is given to the Commission by the Inland Water Freight Rates Act.

The Canadian Wheat Board Act, Revised Statutes of Canada 1970 Ch. C-12

The Canadian Wheat Board was created by the federal government in 1935 when the three prairie wheat pools, although they were backed by their respective provincial governments, could not withstand the tremendous financial pressures resulting from a great surplus of wheat on world markets and prices that were below production costs for wheat that was sold. Today the Board dominates the marketing of grain in Western Canada and makes an impact on the production of most crops grown there.

The Board consists of five commissioners appointed by the federal cabinet. Board members and support staff receive their salaries and wages from the proceeds of grain sold by farmers. In fact all the cost of operating the Board is borne by the grain producers; however, they receive some assistance from the federal treasury for part of the cost of storing wheat in commercial elevators. (See outline of the Temporary Wheat Reserves Act which follows).

The Board has permanent offices in Winnipeg, Vancouver, Montreal, Tokyo and London, England. It uses the established grain export companies to make sales on an agency basis. There are 25 firms which export grain for the Board via the Lakehead and the eastern route and 17 firms which handle Board grain via ports on the Pacific Coast.

The Board has no assets of its own. It has no funds; it retains no profits. The money to pay for wheat, durum wheat, oats and barley delivered by the producers is obtained by borrowing from the chartered banks. The cost of this money is paid by the producers. The Board does not own or operate grain handling, storage or transportation facilities. It contracts with licensed primary elevator operators to act as buying and forwarding agents.

The object of the Board is to market grain in an orderly manner. This marketing function is limited to interprovincial and export trade. Grain grown and marketed within a province does not come under the jurisdiction of the Board although its authority does extend to all elevators, flour mills, feed mills, feed warehouses and seed cleaning mills.

The federal cabinet appoints an advisory committee, comprised of eleven members, at least six of them representing wheat producers.

Although the federal cabinet has authority to direct the Board how it is to operate, in practice it has a great deal of autonomy.

Elevators are operated for and on behalf of the Board. Only a Board agent may operate an elevator unless the Board excepts that elevator from provisions of the Canadian Wheat Board Act.

The Board has the authority to limit deliveries of grain by individual producers. This is accomplished by the issuing of permit books, by the fixing of delivery quotas at specified delivery points, and by some special delivery quotas for selected grain.

A bona fide grain producer is entitled to have a permit book issued to him by the Board. "Producer" includes the actual producer and any person entitled to the grain such as a landlord, a vendor or a mortgagee. The actual producer of the grain has the prior right to possession of the permit book and only one permit book may be issued per farm. Where two or more producers are entitled to the grain from a farm, no one of them may deliver in excess of his proper share of the delivery quota.

Only a producer may deliver grain to a licensed elevator subject to the provisions that he holds a permit book and that he goes to one of the two delivery points named in his permit book. While the Board has authority to designate delivery points, usually the producers are permitted to choose them.

The quantity of grain accepted from producers by elevator companies must not exceed the quota established at the time of delivery for the kind of grain being offered and for the point stipulated. A record of all deliveries must be entered in permit books.

The Board must buy whatever wheat, durum wheat, oats, and barley is offered by a bona fide producer provided that he has complied with all the orders and regulations of the Board. It must pay the appropriate initial payment on delivery. Generally this is done by the elevator operator acting on behalf of the Board. Payment for his costs is made upon the grain being delivered to the Board at a terminal or mill elevator.

A record of each grain delivery and the payment made, is entered in an accounting pool along with similar records for all other grain of like kind and grade marketed in the same crop year. Every producer shares in an equitable distribution of surplus funds in the pool at the end of its accounting period which coincides with the crop year.

Only grain taken into an elevator in accordance with orders and regulations of the Board may be loaded into a railway car.

The Board has the authority to order grain by grade loaded from elevators into railway cars or lake vessels. Grain is thus shipped out of country elevators according to orders issued by the Board to its agents, the elevator operators. The Board also has authority to prohibit the movement of any kind of grain from an elevator. It may allocate railway cars to specific persons or elevators at specific delivery points. In the ordinary course of events, however, it refrains from being so specific, preferring to allocate shipping orders and cars en masse to its agents for the movement of grain from elevators situated in specified loading blocks.

At the present time only grain produced in the so-called designated area comes under the jurisdiction of the Board, but this amounts to most of the grain produced in Canada. The designated area comprises all of Manitoba, Saskatchewan and Alberta, a small area in the Rainy River region of Ontario near the Manitoba border, and the Peace River and Creston-Wynndel areas of British Columbia.

After the Board has received payment for the wheat, durum wheat, oats and barley delivered to it, all charges against those crops are deducted before the remaining money is distributed in the form of a final payment to producers. These cheques are mailed from six to nine months after the pool has been closed for deliveries at the end of the crop year. The amount of the final payment depends on the grade of the grain and the price per bushel obtained by the Board.

The Board has authority to prohibit the export or import of wheat, durum wheat, oats and barley or any of their products. It may also prohibit the transportation of these grains from one province to another. Only the

Board may contract for the sale of these grains if they are destined to any place outside the province in which they are grown. It may grant licenses for wheat, durum wheat, oats and barley to be exported, imported or moved across provincial boundaries.

Temporary Wheat Reserves Act, Statutes of Canada 1956 Ch. 2

According to the Minister of Trade and Commerce at the time, this Act was passed by the government of Canada in 1956 in lieu of establishing a two-price system for grain.

The legislation makes the federal government responsible for paying the costs of storage and bank interest for 365 days on wheat and durum wheat in excess of 178 million bushels that is held by the Canadian Wheat Board and that is in commercial storage at the opening of business on August 1, the start of each crop year. The rates paid per bushel are those prevailing on July 31, the last day of the previous crop year.

The purpose of the Act is to save the Canadian Wheat Board and thereby producers in Western Canada from the payment of carrying costs on abnormally large stocks of wheat and durum wheat. Without the Act the Wheat Board might be forced into panic selling in violation of its duty to market wheat in an orderly manner.

The federal treasury each month pays to the Canadian Wheat Board one-twelfth of the carrying charges on the excess stocks. This amount is prorated in the accounting pools and it is eventually paid out to producers as part of the final payment.

If the Wheat Board does not hold more than 178 million bushels at the beginning of a crop year, no payments are to be made for that or any following crop year. The Temporary Wheat Reserves Act would become null and void. This is why the Act has the word "temporary" in its title.

National Transportation Act, Revised Statutes of Canada 1970 Ch. N-17

The National Transportation Act became law in 1967 with the declaration that "an economic and efficient transportation system, making the best use of all available modes of transportation at the lowest total cost, is essential to protect the interests of the users of transportation and to maintain the economic well-being and growth of Canada ...".

The Act dissolved the Board of Transport Commissioners for Canada and established the Canadian Transport Commission comprised of seventeen members. Under the new Commission several committees were formed. The one that affects grain production and marketing in Western Canada is the Railway Transport Committee. It has five members.

The commissioners are appointed by the government of Canada. They and their staff are federal civil servants.

The Commission administers the Railway Act. It regulates and licenses any mode of transport in Canada; it controls rates and tariffs and it dispenses transport subsidies voted by Parliament.

Any person believing that a particular rate set by a carrier is prejudicial to the public interest may apply to the Commission for permission to appeal the rate. If an appeal is allowed and hearings are held, representatives of shippers, consignees, municipal governments and provincial governments are entitled to appear. Should the Commission be convinced that the rate in question is against the public interest, it may make an order requiring the carrier to change the rate.

The greatest impact of the National Transportation Act on the grain production and marketing system comes from provisions covering the abandonment of uneconomic branch railway lines. The definition of branch lines includes all subsidiary, secondary, local or feeder lines and segments of branch lines.

The Commission sets the rules governing the filing of abandonment applications and the determination of whether or not the branch line in the application is truly eligible for abandonment on economic grounds.

The Commission holds public hearings on the question of branch line abandonment and listens to all persons who wish to present their views. On the basis of the application and the hearing, the Commission determines if the branch line is uneconomic, if it is likely to remain so and if it should be abandoned. Only lines that incurred an operating loss in the last accounting year may be permitted to discontinue.

A hearing may cover several applications at the same time if the branch lines are in the same or adjoining areas. The Commission has authority to decide the order in which applications are considered. It may, however, ask the railway company for its order of preference.

In determining whether or not a branch line may be abandoned, some factors considered by the Commission are as follows: the public interest; the actual losses incurred; the alternative transportation facilities; the adjustment period required; the disruption to the economy of the communities and the area; the effect on other lines and other carriers; the feasibility of maintaining the line or any part of it by a) changing the method of operation, b) inter-connecting with another line, c) sale or lease of the line or part of it to another railway company, d) exchanging running rights, and e) constructing connecting lines with lines of another company; the known or potential resources of the area; the seasonal restrictions on other forms of transport; and the future transportation needs of the area.

When the Commission decides that a branch line or a segment of it is to be abandoned, a closing date is set from one month to five years after the issuance of the abandonment order. The railway company must cease its operation of the branch line on the specified date.

Where the Commission is not satisfied that a line should be abandoned, it orders the railway to continue its operation; however, the abandonment application is reconsidered periodically in the light of any new conditions that may arise.

Even though no applications for abandonment of certain branch lines have been filed, the Commission may recommend the rationalization of railway lines through the exchange of branch lines between companies, through the exchange of running rights on other lines and through the connecting of lines of rival companies. The Commission may also recommend to the rail companies that applications for abandonment of branch lines be filed.

Where the Commission has determined that a branch line is uneconomic but the line continues to operate, the railway company is entitled to claim for the actual loss accruing to that line in each fiscal year. The Commission in such cases examines the figures in the claim and recommends to the Minister of Finance that the particular rail company be paid the verified amount of the loss.

The federal cabinet may designate specific branch lines that may not be abandoned for fixed periods of time. This was done for the so-called protected lines that may not be closed before January 1, 1975. If losses are incurred in the operation of such lines, a railway company may claim for losses even though no application has been filed. On the recommendation of the Commission, the claim may be paid.

The National Transportation Act confirms the statutory freight rates on grain set by the "Act to Authorize a Subsidy for a Railroad through the Crows Nest Pass" S.C. 1897 Ch. 5. For the first time statutory freight rates are established on grain moving by rail from prairie points to the Pacific Coast ports and Churchill for export at the levels prevailing on December 31, 1966. To change these rates now requires an Act of Parliament. Before the National Transportation Act was passed, the export freight rates to the Pacific were set by an order of the Board of Transport Commissioners and the level of these rates was established having regard to the Crows Nest rates on grain moving eastward to the Lakehead.

APPENDIX

ESTIMATED NUMBERS OF QUARTER SECTIONS AND PERMIT HOLDERS BY DISTANCE
FROM DELIVERY POINTS BEFORE AND AFTER DIVERSION

Table A.1 shows the estimated number of quarter sections in each hinterland and their distances to a delivery point both before and after diversion. The number of quarter sections was obtained from hinterlands plotted on the basis of 1969-70 and the distance for each quarter section was measured in units of 1.0 mile after the manner described in the commentary for Table 3.15.

Table A.2 shows the estimated number of permit holders by their distance from a delivery point and it was derived from Table A.1 by converting quarter sections to number of permits. In both tables the delivery points are in two groups; namely points assumed closed and points remaining open. This ordering is the same as Part IV.

Taking Lilac as an example, Table A.1 shows that in 1969-70 this point had 190 quarter sections in its hinterland and that 40 of them were within a distance of 2 miles. Lilac was assumed closed and its acreage diverted to the neighboring points of Maymont, Ruddell, Richard and Denholm (Table 4.2). The distance of each quarter section from its new delivery point was then measured and only 3 quarter sections of the original Lilac hinterland remained within 2 miles of a delivery point. Since each Lilac permit holder farms an average of 3.84 quarter sections, 40 quarter sections represent about 10.5 permit holders and 3 quarter sections represent less than 1.0 permit holders (Table A.2).

From Table A.2 it is not possible to infer that the permit holders hauling a certain distance before closure are hauling the same distance after closure. For instance: it cannot be determined whether the 3.0 Lilac permit holders hauling 11-12 miles before diversion are among the 6.5 permit holders hauling 11-12 miles after diversion.

To assist further in the interpretation of these tables, the following relationships are noted:

1. The subtotals before diversion of the points assumed closed plus the subtotals before diversion of the points remaining open equal the study area totals before diversion.
2. The subtotals after diversion of the points assumed closed plus the subtotals before diversion of the points remaining open equal the subtotals after diversion of the points remaining open.
3. Since the points remaining open after diversion account for all quarter sections (and all permit holders) their subtotals after diversion equal the study area totals after diversion.

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70

Average No. of Quarters Per Permit	Delivery Point	Distance in miles																				Total No. of Quarters	
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	21 & 22	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40		Over 40 ²
Points Assumed Closed																							
- number of quarter sections -																							
3.59	18 Hatherleigh Before Diversion After Diversion	32	41	29	15	2	1	0	1														121
		3	21	36	37	14	6	3	1														121
3.41	3 Bournemouth Before Diversion After Diversion	21	25	18	11	4	1																80
		6	8	15	19	17	7	7	1														80
3.13	7 Ordale Before Diversion After Diversion	39	44	16																			99
		31	37	31																			99
3.23	17 Ranger Before Diversion After Diversion	7	28	19	20	11	1																87
		15	9	12	20	7	17	7															87
2.69	12 Polwarth Before Diversion After Diversion	26	21	26	4	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	83
		1	31	39	12																		83
3.44	42 Makwa Before Diversion After Diversion	29	77	79	68	45	23	5	9	2	4	4	4	4	1	25	53	56	51	37	25	13	350
							6	0	2	0	1	14	25	53	56	56	56	56	51	37	25	13	350
4.53	26 Fairholme Before Diversion After Diversion	35	62	66	22	4	7	17	9	1	1												224
		1	0	0	3	24	40	35	39	34	24	16	8										224
4.66	19 Redfield Before Diversion After Diversion	29	59	46	27	6	2	2	0	1													172
		1	0	8	22	50	61	26	3	1													172
3.37	34 Alticane Before Diversion After Diversion	26	50	36	16	18	16	4	2	3													171
		3	24	44	40	39	19	0	0	2													171
3.99	11 Scentgrass Before Diversion After Diversion	25	44	37	24	16	12	5	0	2	3	7	4										179
		19	51	52	19	13	7	2	16														179
4.68	25 Robinhood Before Diversion After Diversion	38	70	53	52	25	3	4	2	1													248
		18	34	67	58	54	13	2	1	0	0	1											248

See footnotes at end of table (continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70
(continued)

Average No. of Quarters Per Permit	Delivery Point	Distance in miles																																Total No of Quarters
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	21 & 22	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40	Over 40 ^b	- number of quarter sections -											
3.87	39 Mullingar Before Diversion After Diversion	19	50	38	14	22	23	10	3	1	1																						181 181	
4.78	43 Livelong Before Diversion After Diversion	46	68	70	45	34	27	29	45	23	13																						400 400	
4.36	35 Glenbush Before Diversion After Diversion	44	63	60	25	7	2	0	0	1																							202 202	
4.63	14 Brada Before Diversion After Diversion	44	47	44	16	3	3	0	0	0	0	1	5	0	1	0	5																169 169	
3.84	15 Lilac Before Diversion After Diversion	40	55	38	26	14	11	3	2	1																							190 190	
3.91	48 Mayfair Before Diversion After Diversion	35	86	89	36	26	31	28	5																								336 336	
2.88	8 Tallman Before Diversion After Diversion	30	38	31	18	7	15	7	2																								148 148	
3.53	38 Whitkow Before Diversion After Diversion	33	54	52	44	20	10																										213 213	
3.70	23 Keatley Before Diversion After Diversion	39	73	50	48	20	4	0	0	1	2	0	1	0	0	5																	243 243	
3.61	53 Rabbit Lake Before Diversion After Diversion	45	94	115	101	76	40	20	10	4	1	0	3	1	0	2	2																512 512	
3.87	61 Glaslyn Before Diversion After Diversion	41	85	114	130	119	69	40	16	6																							620 620	

See footnotes at end of table

(continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70
(continued)

Average No. of Quarters Per Permit	Delivery Point	1		3		5		7		9		11		13		15		17		19		21		23		25		27		29		31		33		35		37		39		Over 40 ^b Quarters	Total No																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		& 2	& 4	& 6	& 8	& 10	& 12	& 14	& 16	& 18	& 20	& 22	& 24	& 26	& 28	& 30	& 32	& 34	& 36	& 38	& 40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Subtotal of Points Assumed Closed		- number of quarter sections -																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Before Diversion		723	1234	1126	762	481	302	175	107	47	25	12	18	2	1	5	7	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

See footnotes at end of table

(continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70
(continued)

Average No. of Quarters Per Permit	Delivery Point	Distance in miles																				Total No. of Quarters	
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	21 & 22	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40		Over 40 ^b
		- number of quarter sections -																					
4.13	33 Ruddell Before Diversion After Diversion	41 44	63 65	28 57	4 21	5 5																	141 192
3.42	60 Canwood Before Diversion After Diversion	42 42	88 88	127 136	151 183	102 125	105 107	100 100	93 93	70 70	44 44	10 10	2 2	0 0	0 0	2 2	1 1	1 1					938 1,004
5.09	50 Mervin Before Diversion After Diversion	44 44	76 76	77 80	66 68	45 50	52 63	18 39	10 41	3 43	9												391 513
3.89	66 Spiritwood Before Diversion After Diversion	39 41	81 81	124 124	155 155	161 162	152 152	112 112	50 71	13 44	1 33	2 4	1 2		6 0	2 2							891 989
3.96	56 Leoville Before Diversion After Diversion	45 45	81 81	83 98	87 96	88 100	55 75	26 33	26 43	20 27	0 0	0 0	0 0	0 0	0 0	1 1							512 599
4.02	69 North Battleford Before Diversion After Diversion	8 8	36 36	44 61	53 78	63 84	61 64	62 62	49 49	58 58	20 23	19 19	41 41	16 16	5 5	16 16	1 1	6 6	4 4	3 3	5 5	570 639	
3.41	68 Meadow Lake Before Diversion After Diversion	25 25	73 73	131 131	171 171	169 169	140 140	124 130	128 128	188 190	191 191	172 186	154 179	121 174	122 178	34 90	16 67	19 56	47 72	58 71	209 220	2,483 2,833	
2.96	Blaine Lake ^c Before Diversion After Diversion	36 37	82 92	111 143	118 134	122 123	104 107	45 47	21 25	13 13	15 15	5 5	6 6	3 3									681 750
2.53	45 Krydor Before Diversion After Diversion	42 42	78 91	91 115	83 101	77 87	63 67	35 43	5 9	0 2	2 5												476 562
4.34	32 Denholm Before Diversion After Diversion	40 40	103 111	89 124	35 90	28 60	23 32	18 32	10 19	7 12	3 3	1 1	2 2	3 3									362 529
2.94	62 Hafford Before Diversion After Diversion	46 46	108 108	127 128	111 130	97 116	85 108	86 108	55 75	49 76	33 62	28 58	18 44	22 37	4 13	3 3							872 1,112

See footnotes at end of table

(continued)

TABLE A.1 ESTIMATED NUMBER OF QUARTER SECTIONS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70
(concluded)

Average No. of Quarters Per Permit	Delivery Point	Distance in miles																																						Total No. of Quarters		
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40	Over 40 ^b																					
- number of quarter sections -																																										
3.86	31 Richard Before Diversion After Diversion	42	64	39	52	53	46	24	12	4	2	0	0	1	2	0	4	1	2																						348 648	
		43	64	52	61	80	80	56	71	77	45	9	0	1	2	0	4	1	2																							
4.78	64 Turtleford Before Diversion After Diversion	45	91	118	122	126	93	29	8	4	5	8	2	0	3	1																										655 1,249
		45	91	118	126	144	123	85	73	84	98	74	55	48	37	28	17	3																								
3.76	47 Speers Before Diversion After Diversion	45	84	86	47	19	12	18	8	0	0	0	1																													320 695
		45	85	89	72	55	59	56	57	51	42	31	34	8	11																											
3.62	16 Iffley Before Diversion After Diversion	15	18	42	42	8	0	0	0	0	0	0	0	2																												127 686
		34	64	88	96	83	72	58	57	40	47	31	14	2																												
3.80	27 Sandwith Before Diversion After Diversion	32	44	48	24	6	1																																			155 861
		32	61	103	113	95	116	108	80	52	47	32	19	3																												
4.13	46 Medstead Before Diversion After Diversion	43	79	91	92	91	54	23	4	1																																478 1,300
		45	109	153	186	170	157	116	79	79	55	56	44	19	14	12	0	6																								
	Subtotal of Points Remaining Open Before Diversion After Diversion	1383 1411	2852 2990	3160 3560	2987 3502	2482 2983	2030 2534	1357 1847	909 1430	742 1247	544 947	414 672	379 583	281 405	160 281	164 261	54 127	35 95	26 63	52 77	64 77	210 221	20,285 25,313																			
	Study Area Total Before Diversion After Diversion	2106 1411	4086 2990	4286 3560	3749 3502	2963 2983	2332 2534	1532 1847	1016 1430	789 1247	569 947	426 672	397 583	283 405	161 281	169 261	61 127	35 95	26 63	53 77	64 77	210 221	25,313 25,313																			

^a Calculated by dividing the average number of acres per permit (mean size shown in Table 2.11) by 160 acres.
^b Maximum distance was 57 miles at Meadow Lake both before and after diversion.
^c Blaine Lake is shown as gaining quarter sections from only the Shellbrook-Turtleford Region. Additional quarters were gained from points in the Rosthern Study Region.

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70

Actual No. 1969-70 Permits ^a	Delivery Points	Distance in miles																							Estimated Total No. of Permits
		1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	Over 40 ^c			
		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40				
		- number of permit holders ^b																							
Points Assumed Closed																									
34	18 Hatherleigh Before Diversion After Diversion	9.0 1.0	11.0 5.5	8.0 10.0	4.0 10.0	0.5 0.5	0.5 4.0	0.0 1.5	0.5 1.0	0.5													33.5 33.5		
24	3 Bournemouth Before Diversion After Diversion	6.0 1.5	7.5 2.5	5.5 4.5	3.0 5.5	1.0 5.0	0.5 5.0	2.0 2.0	2.0 0.5	0.5													23.5 23.5		
32	7 Ordale Before Diversion After Diversion	12.5 10.0	14.0 10.0	5.0 11.5	10.0 10.0																		31.5 31.5		
27	17 Ranger Before Diversion After Diversion	2.0 4.5	8.5 6.0	6.0 3.0	3.5 4.0	0.5 6.0	0.5 2.0	0.5 2.0	5.5 2.0	2.0													27.0 27.0		
29	12 Polwarth Before Diversion After Diversion	9.5 0.5	8.0 9.5	9.5 1.5	0.5 11.5	0.5 14.5	0.5 4.5	0.0 0.0	0.5 0.0	0.0 0.0	0.0 0.0	0.5 0.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.5 0.5			31.0 31.0		
104	42 Makwa Before Diversion After Diversion	8.5 7.5	22.5 13.5	23.0 14.5	20.0 5.0	13.0 0.0	6.5 0.5	1.5 4.0	2.5 9.0	0.5 7.5	1.0 8.5	1.0 7.5	1.0 5.5	0.5 3.5	0.5 1.5								101.5 101.5		
50	26 Fairholme Before Diversion After Diversion	7.5 6.0	13.5 12.5	14.5 10.0	5.0 0.5	0.5 0.0	1.5 0.0	4.0 5.5	2.0 9.0	0.5 7.5	0.5 8.5	0.5 7.5	0.5 5.5	0.5 3.5	1.5 1.5								49.5 49.5		
38	19 Redfield Before Diversion After Diversion	6.0 8.0	12.5 15.0	10.0 10.5	6.0 4.5	1.0 5.5	0.5 4.5	0.5 1.0	0.0 0.5	0.5 13.0	0.5 5.5	0.5 1.0	0.5 0.5										37.0 37.0		
54	34 Alticane Before Diversion After Diversion	8.0 6.5	15.0 11.0	10.5 9.5	4.5 6.0	5.5 4.0	4.5 3.0	1.0 1.0	0.5 0.0	0.5 0.5	1.0 0.5	1.0 0.5	0.5 0.0	0.0 0.0	0.5 0.5								50.5 50.5		
45	11 Scentgrass Before Diversion After Diversion	6.5 5.0	11.0 13.0	9.5 13.0	6.0 5.0	4.0 3.0	3.0 1.5	1.0 0.5	0.0 4.0	0.5 2.0	0.5 1.0	0.5 0.5	0.5 1.0										45.0 45.0		
54	25 Robinhood Before Diversion After Diversion	8.0 4.0	15.0 7.0	11.0 14.0	5.5 12.5	0.5 11.5	0.5 11.5	1.0 2.5	0.5 0.5	0.5 0.0	0.5 0.0	0.5 0.0	0.5 0.5										53.0 53.0		
49	39 Mullingar Before Diversion After Diversion	5.0 5.0	13.0 13.0	10.0 10.0	3.5 3.5	5.5 5.5	6.0 6.0	2.5 2.0	0.5 5.0	0.5 12.0	0.5 8.0	0.5 10.0	0.5 10.0	0.5 5.0	4.5 4.5	0.5 0.5							47.0 47.0		

See footnotes at end of table

(continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70 (continued)

Actual No. 1969-70 Permits ^a	Delivery Points	Distance in miles																				Estimated Total No. Over 40 ^c of Permits	
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	21 & 22	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40		
- number of permit holders ^b																							
84	43 Livelong Before Diversion After Diversion	9.5	14.0	14.5	9.5	7.0	5.5	6.0	9.5	5.0	3.0												83.5 83.5
48	35 Glenbush Before Diversion After Diversion	10.0	14.5	14.0	5.5	1.5	0.5	0.0	0.0	0.5													46.5 46.5
37	14 Brada Before Diversion After Diversion	9.5	10.0	9.5	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	1.0	0.0	0.5	0.0	1.0						36.5 36.5
52	15 Lilac Before Diversion After Diversion	10.5	14.5	10.0	6.5	3.5	3.0	0.5	0.5	0.5													49.5 49.5
89	48 Mayfair Before Diversion After Diversion	9.0	22.0	23.0	9.0	6.5	8.0	7.0	1.5			16.5	20.0	16.5	14.5	3.0	0.5						86.0 86.0
51	8 Tallman Before Diversion After Diversion	10.5	13.0	11.0	6.5	2.5	5.0	2.5	0.5														51.5 51.5
61	38 Whitkow Before Diversion After Diversion	9.5	15.5	14.5	12.5	5.5	3.0					6.5	3.0	1.5									60.5 60.5
68	23 Keatley Before Diversion After Diversion	10.5	19.5	13.5	13.0	5.5	1.0	0.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0	1.0						65.5 65.5
147	53 Rabbit Lake Before Diversion After Diversion	12.5	26.0	32.0	28.0	21.0	11.0	5.5	2.5	1.0	0.5	0.0	1.0	0.5	0.0	0.0	0.5						142.0 142.0
163	61 Glaslyn Before Diversion After Diversion	10.5	22.0	29.5	33.5	30.5	18.0	10.5	4.0	1.5													160.0 160.0
1,340	Subtotal of Points Assumed Closed Before Diversion After Diversion	190.5	322.5	294.0	198.0	124.5	80.0	44.0	25.5	13.0	6.5	3.5	5.0	1.0	0.5	1.0	1.5	0.0	0.0	0.0	0.5	3.0	1,311.5 1,311.5
Points Remaining Open																							
81	24 Bapaume Before Diversion After Diversion	4.5	13.0	13.5	15.5	12.0	10.5	2.0	2.5	0.5	2.0	1.0											77.0 77.0

See footnotes at end of table (continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70 (continued)

Actual No. 1969-70 Permits ^a	Delivery Points	Distance in miles																				Estimated Total No. of Permits
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	21 & 22	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40	
		- number of permit holders ^b -																				
40	28 Mildred Before Diversion After Diversion	6.5 6.5	8.5 8.5	9.5 9.5	3.5 3.5	3.0 3.0	3.0 3.0	2.5 2.5	0.5 0.5	0.5 0.5												37.5 37.5
53	36 Fielding Before Diversion After Diversion	9.5 9.5	18.0 18.0	16.0 16.0	6.0 6.0	1.5 1.5	1.0 1.0															52.0 52.0
192	40 Holbein Before Diversion After Diversion	5.0 5.0	13.0 13.0	12.5 12.5	16.0 16.0	16.5 16.5	18.5 18.5	12.5 12.5	12.0 12.0	14.0 14.0	13.5 13.5	15.5 15.5	15.5 15.5	11.0 11.0	1.0 1.0	1.0 1.0	2.0 2.0	1.0 1.0	0.0 0.0	0.5 0.5		181.0 181.0
86	44 Vawn Before Diversion After Diversion	9.0 9.0	19.0 19.0	14.0 14.0	12.0 12.0	7.0 7.0	1.0 1.0	0.5 0.5	1.0 1.0													78.5 78.5
36	51 Meota Before Diversion After Diversion	3.5 3.5	7.0 7.0	5.0 5.0	7.0 7.0	5.0 5.0	1.5 1.5	0.5 0.5	3.0 3.0	2.0 2.0	1.5 1.5	0.5 0.5										36.5 36.5
176	52 Shell Lake Before Diversion After Diversion	8.0 8.0	26.5 26.5	31.0 31.0	36.0 36.0	32.5 32.5	22.0 22.0	9.5 9.5	1.5 1.5	2.5 2.5												169.5 169.5
137	54 Marcelin Before Diversion After Diversion	10.5 10.5	22.5 22.5	24.5 24.5	21.0 21.0	19.5 19.5	18.0 18.0	13.0 13.0	2.5 2.5	0.5 0.5												132.0 132.0
189	57 Borden Before Diversion After Diversion	8.0 8.0	20.0 20.0	23.0 23.0	21.0 21.0	23.0 23.0	26.0 26.0	21.0 21.0	17.0 17.0	12.0 12.0	7.5 7.5	3.5 3.5	2.0 2.0	0.5 0.5								184.5 184.5
132	59 Radisson Before Diversion After Diversion	10.0 10.0	27.5 27.5	31.5 31.5	27.5 27.5	16.0 16.0	11.0 11.0	3.5 3.5	2.0 2.0	1.5 1.5												130.5 130.5
110	63 Big River Before Diversion After Diversion	7.0 7.0	16.0 16.0	19.0 19.0	16.0 16.0	9.0 9.0	12.5 12.5	11.0 11.0	9.5 9.5	4.5 4.5	3.0 3.0	1.5 1.5	0.5 0.5									109.5 109.5
236	65 Leask Before Diversion After Diversion	10.5 10.5	24.0 24.0	29.5 29.5	34.5 34.5	31.5 31.5	29.0 29.0	24.0 24.0	19.0 19.0	16.5 16.5	9.5 9.5	2.5 2.5	2.0 2.0	0.0 0.0	0.5 0.5	0.5 0.5						233.5 233.5
260	67 Shellbrook Before Diversion After Diversion	13.0 13.0	27.5 27.5	33.0 33.0	26.5 26.5	23.5 23.5	23.0 23.0	17.0 17.0	13.0 13.0	11.5 11.5	12.5 12.5	12.5 12.5	10.5 10.5	7.0 7.0	4.0 4.0	2.0 2.0	1.5 1.5	1.0 1.0	0.5 0.5	0.5 0.5		240.0 240.0

See footnotes at end of table

(continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70 (continued)

[illegible]

See footnotes at end of table

(continued)

TABLE A.2 ESTIMATED NUMBER OF PERMIT HOLDERS AND DISTANCE FROM DELIVERY POINT BEFORE AND AFTER DIVERSION, SHELLBROOK-TURTLEFORD REGION, 1969-70 (concluded)

Actual No. 1969-70 Permits ^a	Delivery Points	Distance in miles																				Estimated Total No. of Permits			
		1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12	13 & 14	15 & 16	17 & 18	19 & 20	21 & 22	23 & 24	25 & 26	27 & 28	29 & 30	31 & 32	33 & 34	35 & 36	37 & 38	39 & 40		Over 40 ^c		
- number of permit holders ^b -																									
117	46 Medstead	10.5	19.0	22.0	22.0	22.0	13.0	5.5	1.0	0.5														115.5	
	Before Diversion	11.0	26.0	35.5	42.0	40.0	37.5	29.0	20.5	20.5	13.5	14.5	11.5	5.0	3.5	3.0	0.0	1.5						314.5	
5,578	Subtotal of Points Remaining Open																								
	Before Diversion	356.5	740.0	829.5	786.0	654.5	538.5	365.0	244.5	204.5	151.0	116.5	106.0	79.5	46.5	47.0	15.5	10.5	7.5	16.0	19.0	61.5	5,395.5		
	After Diversion	364.0	777.0	936.5	922.0	789.0	671.0	492.0	380.0	333.0	251.0	181.5	157.5	109.5	78.0	73.0	36.0	27.5	18.0	23.0	23.0	64.5	6,707.0		
6,918	Study Area Total																								
	Before Diversion	547.0	1062.5	1123.5	984.0	779.0	618.5	409.0	270.0	217.5	157.5	120.0	111.0	80.5	47.0	48.0	17.0	10.5	7.5	16.5	19.0	61.5	6,707.0		
	After Diversion	364.0	777.0	936.5	922.0	789.0	671.0	492.0	380.0	333.0	251.0	181.5	157.5	109.5	78.0	73.0	36.0	27.5	18.0	23.0	23.0	64.5	6,707.0		

^aSame as Table 2.11 with addition of Blaine Lake.

^bThe number of permit holders was calculated from Table A.1 as follows: number of quarter sections divided by the average number of quarters per permit (rounded to the nearest one half permit).

^cMaximum distance was 57 miles at Meadow Lake both before and after diversion

^dBlaine Lake is shown as gaining permits from only the Shellbrook-Turtleford Region. Additional permits were gained from points in the Rosthern Study Region.

Communities Other Than Grain Delivery Points in the Shellbrook-Turtleford Region

Although these studies of economic geography in the prairie provinces are primarily concerned with communities that serve as grain collection points, there is at least an awareness of other social and economic entities or activities in any given region. One of these is the community that is not a delivery point for grain.

Usually it has been found that a list of past and present grain delivery points in a particular area accounts for all existent communities. This, however, is not the case in the Shellbrook-Turtleford region. Table A.3 lists 26 places which are not grain delivery points and notes their several characteristics. Populations range from zero at Midnight Lake to 450 at Green Lake. All but 7 of the communities have post offices. While a map of the study area shows the names of more places that are not delivery points for grain, only those with more than 10 persons living in them or those with postal service are shown.

In the context of rail line and grain handling rationalization, it is interesting to note that none of the 5 communities located on rail lines were ever grain delivery points. It can be said that the 26 communities in Table A.3 do not depend on any grain delivery function for their continued existence.

TABLE A.3 COMMUNITIES OTHER THAN GRAIN DELIVERY POINTS IN THE SHELLBROOK-TURTLEFORD REGION

Community	Class or Legal Status	Population 1971	Location R.M.	Post Office Revenue 1969-70	Rail Line
				\$	
Barthel	H	34	983. L.I.D.	450	-
Beacon Lake	H	16	989. L.I.D.	345	-
Birch Lake	H	160	497. Medstead	-	CP
Bodmin	H	22	974. L.I.D.	-	CN
Chitek	H	133	974. L.I.D.	421	CP
Chitek Lake	H	131	974. L.I.D.	-	-
Cochin	H	163	468. Meota	1,552	-
Dorintosh	H	87	980. L.I.D.	1,275	-
Eldred	H	10	494. Canwood	-	-
Erin Ferry (Wrixon)	S	6	494. Canwood	834	-
Golden Ridge	H	12	989. L.I.D.	332	-
Green Lake	H	450	980. L.I.D.	910	-
Jackfish Lake	H	18	468. Meota	226	-
Mayview	S	3	493. Shellbrook	247	-
Metinota	V	11	468. Meota	-	-
Midnight Lake	L	-	498. Parkdale	520	-
Morin Creek	H	13	983. L.I.D.	-	-
Neeb	H	25	980. L.I.D.	52	CP
Peerless	H(o)	31	989. L.I.D.	657	-
Penn	S	2	496. Spiritwood	177	CP
Pierceland	H	271	989. L.I.D.	4,618	-
Rapidview	H	32	980. L.I.D.	323	-
St. Hippolyte	H	20	469. Turtle River	-	-
Victoire	H	70	494. Canwood	804	-
(Shell River)					
Waterhen Lake	H	28	980. L.I.D.	74	-
Whelan	H	12	983. L.I.D.	156	-

L - Area of local interest.

S - Settlement with population of 10 or less.

H - Unorganized hamlet with population of more than 10.

H(o) - Organized hamlet.

V - Incorporated village.

Source: Directory of Saskatchewan Hamlets, Settlements and Other Unincorporated Areas, Department of Municipal Affairs, Regina, 1972
Population of Unincorporated Settlements, 1971 Census, Statistics Canada, Ottawa.
 Canada Post Office Department, Saskatoon.

TABLE A.4 ALPHABETICAL LIST OF COMMUNITIES AND RANK NUMBER IN
THE SHELLBROOK-TURTLEFORD REGION

34 Alticane	1 Hartwell	7 Ordale
24 Bapaume	18 Hatherleigh	6 Ormeaux
29 Belbutte	40 Holbein	41 Parkside
63 Big River	16 Iffley	12 Polwarth
57 Borden	23 Keatley	30 Prince
3 Bournemouth	9 Kilwinning	53 Rabbit Lake
14 Brada	45 Krydor	59 Radisson
2 Cameo	65 Leask	17 Ranger
60 Canwood	56 Leoville	10 Redberry
13 Cater	15 Lilac	19 Redfield
22 Cavalier	43 Livelong	31 Richard
5 Cleeves	42 Makwa	25 Robinhood
21 Crutwell	54 Marcelin	33 Ruddell
55 Debden	48 Mayfair	27 Sandwith
32 Denholm	49 Maymont	11 Scentgrass
4 Dulwich	68 Meadow Lake	67 Shellbrook
58 Edam	46 Medstead	52 Shell Lake
26 Fairholme	51 Meota	47 Speers
36 Fielding	50 Mervin	66 Spiritwood
61 Glaslyn	28 Mildred	8 Tallman
35 Glenbush	37 Mont Nebo	64 Turtleford
62 Hafford	39 Mullingar	44 Vawn
20 Hamlin	69 North Battleford	38 Whitkow

Chronology of Government Legislation, Court Rulings, Board Orders, Regulations, etc., Having an Impact on Production and Marketing of Grain in Western Canada

- 1872 Dominion Land Act S.C. 1872, C.6.
- 1876 First export of wheat from the Prairies.
- 1878 St. Paul Railway entered Winnipeg.
- 1881 First elevator built in Western Canada.
- 1881 Canadian Pacific Railway completed between Fort William and Winnipeg.
- 1882 First cargo of wheat left the Lakehead (Fort William).
- 1883 First elevator built at the Lakehead (Port Arthur).
- 1885 First all-Canadian rail link (Canadian Pacific) between the Prairies and Pacific Coast opened.
- 1887 Formation of the Winnipeg Grain Exchange.
- 1897 An Act to authorize a subsidy for a Railroad through the Crows Nest Pass S.C. 1897, C.5. (Crows Nest Freight rates on western grain moving to Fort William).
- 1899 Royal Commission on the Shipment and Transportation of Grain.
- 1900 Manitoba Grain Act S.C. 1900, C.39.
- 1904 Building of the Western portion of the Grand Trunk Pacific to Prince Rupert. (Completed 1912).
- 1904 Grain Inspection Act S.C. 1904, C.15.
- 1905 Introduction of Marquis Wheat.
- 1906 Royal Commission on the Grain Trade in Canada.
- 1908 Winnipeg Grain Exchange reformed to become an unincorporated voluntary association.
- 1911 Act creating the Saskatchewan Co-operative Elevator Company.
- 1912 Canada Grain Act S.C. 1912, C.27. et seq.
- 1912 First Canadian Government Elevator opened at Port Arthur.

- 1914 First Canadian Government Interior Terminal Elevators opened at Moose Jaw and Saskatoon.
- 1915 Panama Canal opened.
- 1916 First Canadian Government Elevator on the Pacific Coast opened.
- 1916 United Grain Growers formed from amalgamation of three grain growers associations and the Alberta Farmers' Co-op Elevator Company.
- 1917 Board of Grain Supervisors P.C. 1917-1552 (to June 6, 1919).
- 1919 Soldiers Settlement Act S.C. 1919, C.19. et seq.
- 1919 Canadian Wheat Board Act S.C. 1919, C.9 (to 1922).
- 1923 Royal Grain Inquiry Commission P.C. 1923-774.
- 1923 Prairie Wheat Pools formed.
- 1925 Major revision of the Canada Grain Act.
- 1928 Select Standing Committee of the House of Commons dealt with the grading of wheat by protein content.
- 1929 Hudson Bay Railway completed to Port Churchill.
- 1929 Welland Ship Canal expanded and modernized.
- 1929 Prairie Provincial Governments guaranteed bank loans to the three Wheat Pools.
- 1930 Dominion Government provided financial assistance to the banks and the provincial governments covering grain loans.
- 1930 Mr. John I. McFarland appointed by the Federal Government as general manager of the Canadian Co-operative Wheat Producers' Ltd.
- 1930 Revision of the Canada Grain Act S.C. 1930, C.5. et seq.
- 1931 Prairie Wheat Pools separated from their Central Selling Agency, the Canadian Co-operative Wheat Producers Ltd.
- 1931 An Act Respecting Wheat S.C. 1931, C.60. (5¢ freight subsidy).
- 1931 Commission to Inquire into Trading in Grain Futures P.C. 1931-853.
- 1931 Grain Marketing Act S.S. 1931, C.87 (100% pool).
- 1931 First shipment of wheat through Port Churchill.

- 1932 Ottawa Economic Conference - Canada obtained preference on wheat in British market.
- 1933 United States legislation, the Agricultural Adjustment Act; parity prices established.
- 1933 Commodity Credit Corporation established in U.S.A.
- 1933 London Wheat Conference and subsequent International Wheat Agreement.
- 1934 Farmers' Creditors Arrangement Act S.C. 1934, C.53.
- 1934 Natural Products Marketing Act S.C. 1934, C.57.
- 1934 Natural Products Marketing Act ruled ultra vires of the Dominion Government by the Supreme Court of Canada.
- 1934 Emergency Wheat Control Act S.M. 1934, C.48.
- 1935 Prairie Farm Rehabilitation Act S.C. 1935, C.23. et seq.
- 1935 Canadian Wheat Board Act S.C. 1935, C.53. et seq.
- 1936 Royal Grain Inquiry Commission P.C. 1936-1577.
- 1938 Canada-United States trade agreement (abrogated British preference on Canadian Wheat).
- 1939 Agricultural Products Co-operative Marketing Act S.C. 1939, C.28. et seq.
- 1939 Grain Futures Act S.C. 1939, C.31.
- 1939 Prairie Farm Assistance Act S.C. 1939, C.50. et seq.
- 1939 Canadian Wheat Board opened Eastern office in Toronto.
- 1940 First implementation of delivery quota system of control over western grain marketing.
- 1941 Wheat Acreage Reduction P.C. 1941-3047.
- 1941 Feed Freight Assistance Regulation P.C. 1941-7523. et seq.
- 1942 Wheat Acreage Reduction Act S.C. 1942, C.10.
- 1942 Veterans Land Act S.C. 1942-43, C.33. et seq.
- 1943 Wheat Futures Trading discontinued on the Winnipeg Grain Exchange; Canadian Wheat Board made exclusive marketing agency for wheat.

- 1944 Farm Improvement Loans Act S.C. 1944, C.41. et seq.
- 1944 Agricultural Prices Support Act S.C. 1944, C.29.
- 1944 Canadian Wheat Board Act amended to exempt the Board from authority in marketing Eastern Wheat P.C. 1944-5640.
- 1945 The Food and Agriculture Organization of the United Nations Act, S.C. 1945, C.4 et seq.
- 1946 United Kingdom Wheat Agreement.
- 1948 Canadian Wheat Board empowered to control interprovincial movement of wheat products.
- 1948 International Wheat Agreement (No. 1) P.C. 1948-1016.
- 1949 Manitoba Coarse Grain Marketing Control Act R.S.M. 1954, C.41.
- 1949 Saskatchewan Grain Marketing Act R.S.S. 1953, C.241.
- 1949 Alberta Coarse Grain Marketing Control Act S.A. 1949, C.25.
- 1949 Marketing of oats and barley brought under the Canadian Wheat Board.
- 1951 Appropriations Act No. 2 S.C. 1951, C.2, provided for a grant of \$65 million to the 1945-49 Pool as settlement to Western grain producers for participation in the United Kingdom Wheat Agreement.
- 1951 St. Lawrence Seaway Authority Act S.C. 1951, C.24. et seq.
- 1951 Prairie Grain Producers Interim Financing Act S.C. 1951, C.20. et seq.
- 1952 Extension of Colombo Plan to wheat aid
- 1953 International Wheat Agreement (No. 2) P.C. 1953-556.
- 1953 Application of accelerated depreciation for income tax purposes to commercial grain storage facilities.
- 1954 Canada-Japan trade agreement extended M.F.N. rates to Japan and opened Japanese market to Canadian grain.
- 1954 Inauguration of United States Public Law 480.
- 1955 Churchill elevator capacity doubled.
- 1955 GATT resolution on surplus disposal.
- 1956 Canada-USSR trade agreement extended M.F.N. rates to U.S.S.R., which government agreed to buy 1.2 million tons of Canadian Wheat.

- 1956 First shipment of flour to United Nations Relief and Works Agency.
- 1956 Prairie Grain Producers Interim Financing Act, S.C. 1956, C.1.
- 1956 Temporary Wheat Reserves Act S.C. 1956, C.2.
- 1956 International Wheat Agreement (No. 3) P.C. 1953-734.
- 1957 Prairie Grain Advance Payments Act S.C. 1957, C.2.
- 1957 Establishment of FAO Group on Grains.
- 1957 Agricultural Stabilization Act S.C. 1957, C.22. Succeeded the Agricultural Prices Support Act.
- 1957 Treaty of Rome established the European Common Market.
- 1958 First time that the Canadian Wheat Board failed to make a final payment (Oats Pool, 1956-57).
- 1958 Grain Farmers march on Ottawa.
- 1958 Western Grain Producers Acreage Payment Regulations P.C. 1958-1442.
- 1958 Bracken Enquiry into the Distribution of Railway Boxcars P.C. 1958-181.
- 1959 Supreme Court upheld the Board of Transport Commissioners' ruling that demurrage charges on boxcars is permitted at terminal elevators after ten days.
- 1959 Cabinet suspended Board of Transport Commissioners' ruling on demurrage.
- 1959 International Wheat Agreement (No. 4) P.C. 1959-480.
- 1959 Formal institution of Canada-United States Quarterly Meetings on wheat and related matters.
- 1959 Food for Peace Conference (Wheat Utilization Committee).
- 1959 Bracken formula for boxcar allocation instituted.
- 1959 St. Lawrence Seaway opened,
- 1959 Canadian Wheat Board pricing policy changed to take advantage of new freight conditions consequent on St. Lawrence Seaway opening.
- 1959 Crop Insurance Act S.C. 1959, C.42 et seq. Crop Insurance Test Areas Act S.M. 1959, C.14; the Saskatchewan Crop Insurance Act S.S. 1960, C.57.

- 1959 Royal Commission on Transportation P.C. 1959-577.
- 1960 Prairie Grain Provisional Payments Act S.C. 1960, C.2.
- 1960 Prairie Grain Loans Act S.C. 1960, C.1.
- 1960 Freedom from Hunger Campaign.
- 1960 Western Grain Producers Acreage Payment Regulations, 1960.
- 1960 Addition of Title IV to United States Public Law 480.
- 1960 Canadian Wheat Board instituted off-quota feed mill policy.
- 1961 Railway Act amended to include rapeseed as a grain.
- 1961 Report of the Royal Commission on Transportation (MacPherson) recommended branch line abandonment and subsidy to cover losses on grain transport.
- 1961 Agricultural Rehabilitation and Development Act S.C. 1961, C.30.
- 1961 Sale of wheat to China under long term credits negotiated by the Canadian Wheat Board.
- 1962 EEC Ministerial decision implemented the Common Agricultural Policy.
- 1962 Western Grain Producers Acreage Payment Regulations, 1962.
- 1962 Extension of U.S.A. Title IV P.L. 480 provisions to the private grain trade.
- 1962 Canadian dollar value fixed at exchange rate of 92 1/2¢ vis-a-vis the U.S. dollar.
- 1962 Introduction of the European Common Market Grain Regulations, including the import levy system.
- 1962 International Wheat Agreement (No. 5) P.C. 1962-631.
- 1963 Inauguration of the World Food Program.
- 1963 World Food Congress (Freedom from Hunger) Washington, June.
- 1963 Winter Storage Subsidy on feed grain in Eastern elevators paid by Federal government.
- 1963 Sale of 250 million bushels of wheat to U.S.S.R.
- 1964 Kennedy Round of Tariff reductions began, under the General Agreement on Tariff and Trade.

- 1964 Minimum Import Price system applied in the United Kingdom.
- 1964 Export Flour Adjustment policy discontinued by the Canadian Wheat Board.
- 1964 Canadian Wheat Board Headquarters Building expanded.
- 1965 International Wheat Agreement extended by protocol for one year without amendment.
- 1965 Asian wheat production exceeded two billion bushels for the first time.
- 1965 Grain Transportation Committee formed.
- 1966 International Wheat Agreement again extended by protocol for one year to July 31, 1967.
- 1966 Winter Storage Subsidy on feed grain in Eastern elevators cancelled.
- 1966 National Transportation Act S.C. 1966-67, C.69. An Act to define and implement a national transportation policy for Canada.
- 1966 Livestock Feed Assistance Act S.C. 1966, C.52. Canadian Livestock Feed Board established.
- 1967 Price and quantity obligations under the International Wheat Agreement ceased; administrative provisions extended until June 30, 1968.
- 1967 Federal Treasury guaranteed price equivalent of \$1.95 1/2 basis No. 1 Northern, Lakehead, on Canadian Wheat Board sales of wheat.
- 1967 International Grains Arrangement negotiated under the Kennedy Round and a special Rome Conference.
- 1968 Canada Grains Council formed.
- 1968 International Grains Arrangement came into effect July 1. World prices dropped below the arranged minimums; Canadian prices held.
- 1968 Prairie Grain Advance Payments Act amended to double the payment rate and to provide advances to cover cost of drying grain.
- 1969 Canadian prices dropped below the IGA arranged minimums.
- 1969 Canadian Wheat Board selling prices to Canadian buyers for domestic use held at the \$1.95 1/2 equivalent level. Two price system.
- 1969 Block Loading System instituted by the Canadian Wheat Board as a method of calling forward desired kinds and grades of grain.
- 1970 Canadian dollar unpegged.

- 1970 Boden Committee reviewed and reported on the delivery quota system for Western Canadian grain.
- 1970 Canadian Wheat Board inaugurated quota system aimed at making deliveries more selective and market-oriented, and at keeping adequate working space in country elevators.
- 1970 Wheat and Barley pools (1968-69) failed for the first time to make a final payment, and for the second time there was no final payment on an Oats pool (1968-69).
- 1970 Federal Government Wheat Acreage Reduction Program (Operation LIFT) in effect; wheat plantings down 50%.
- 1970 Delivery quota regulations changed to eliminate the unit quota and to move from specified acreage quota to seeded acreage (except for wheat) plus assigned acreage. Each permit holder allowed two delivery points.
- 1971 Quota regulations again changed to a completely assignable acreage base, and terminable quotas introduced.
- 1971 Canada Grain Act S.C. 1970-71, C.7, replaced the Board of Grain Commissioners for Canada with the Canadian Grain Commission.
- 1971 Prairie Grain Advance Payments Act amended.
- 1972 The three Prairie Wheat Pools purchased Federal Grain Ltd.
- 1972 Pioneer Grain Co. purchased the 25 licensed grain elevators of Inter-Ocean Grain Co.
- 1972 Manitoba Coarse Grain Marketing Commission established.
- 1972 Alberta Grain Commission established.
- 1972 Canadian Government Elevators inland terminals made alternate delivery points to all permit holders.
- 1973 Canadian Wheat Board opened delivery quotas for all grains on all shipping blocks effective June 4. This was the first time since July 18, 1966 that quotas for all grains were opened and was the earliest date since the 1961-62 crop year, when all quotas were opened April 12, 1962.

